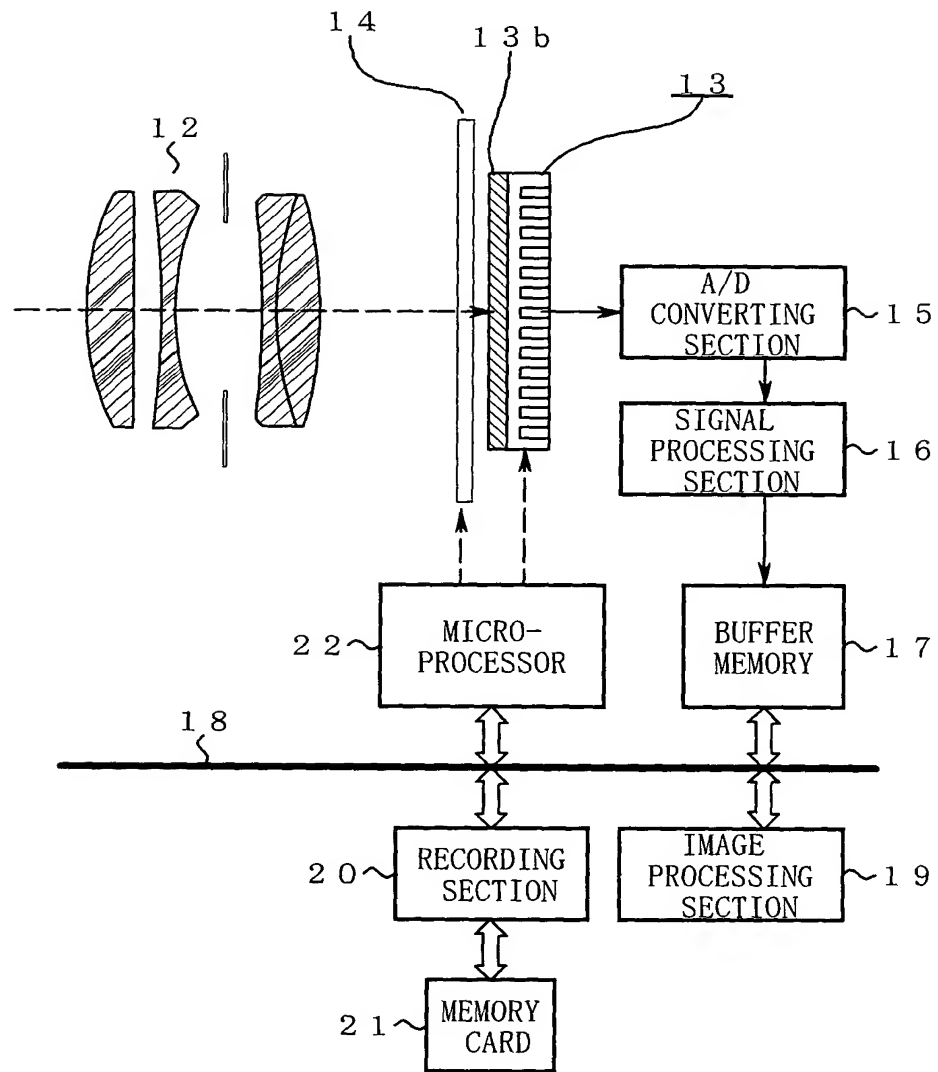


1 1 ELECTRONIC CAMERA



*FIG. 1*

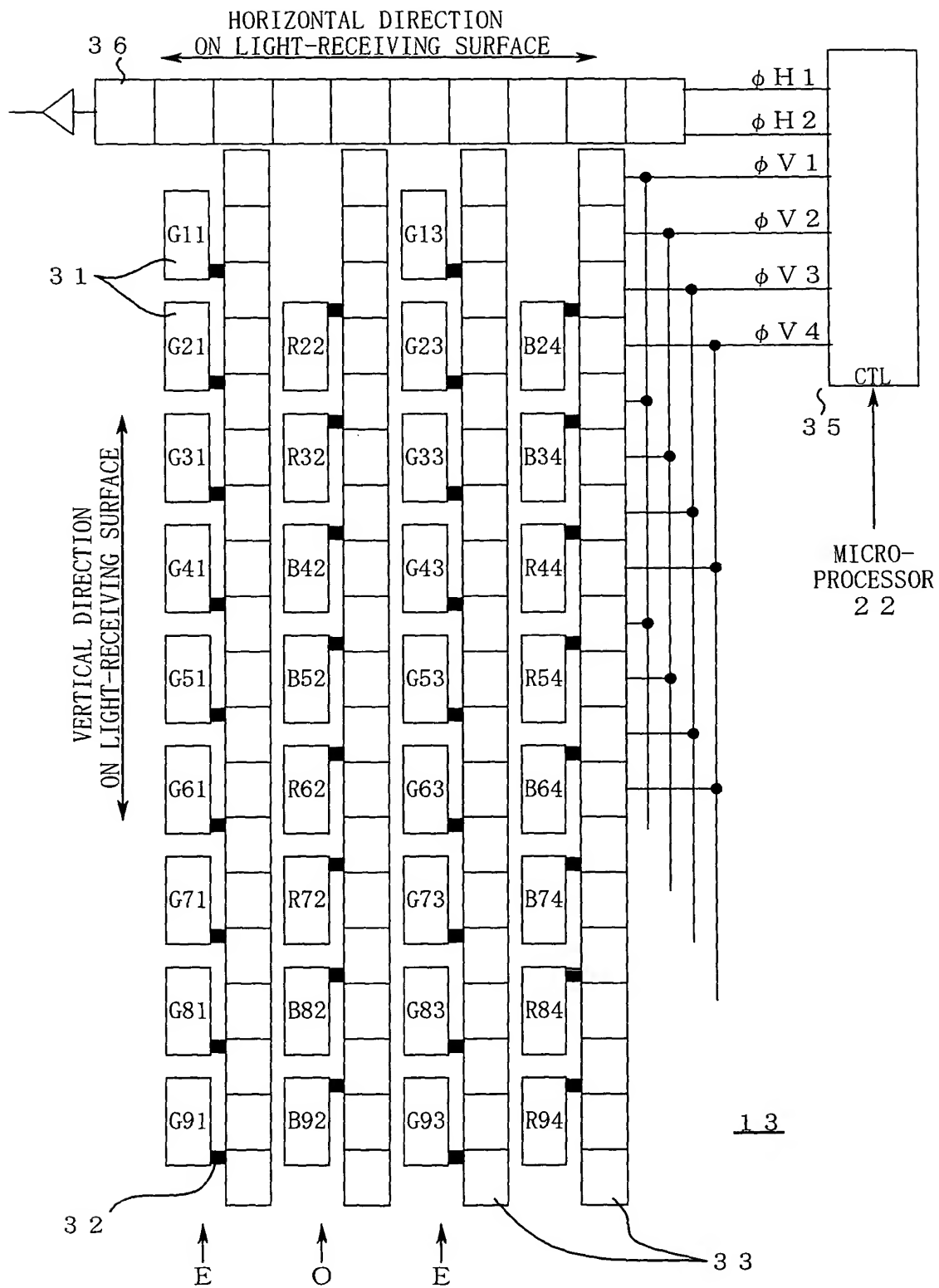


FIG. 2

E : EVEN NUMBER ARRAY  
O : ODD NUMBER ARRAY

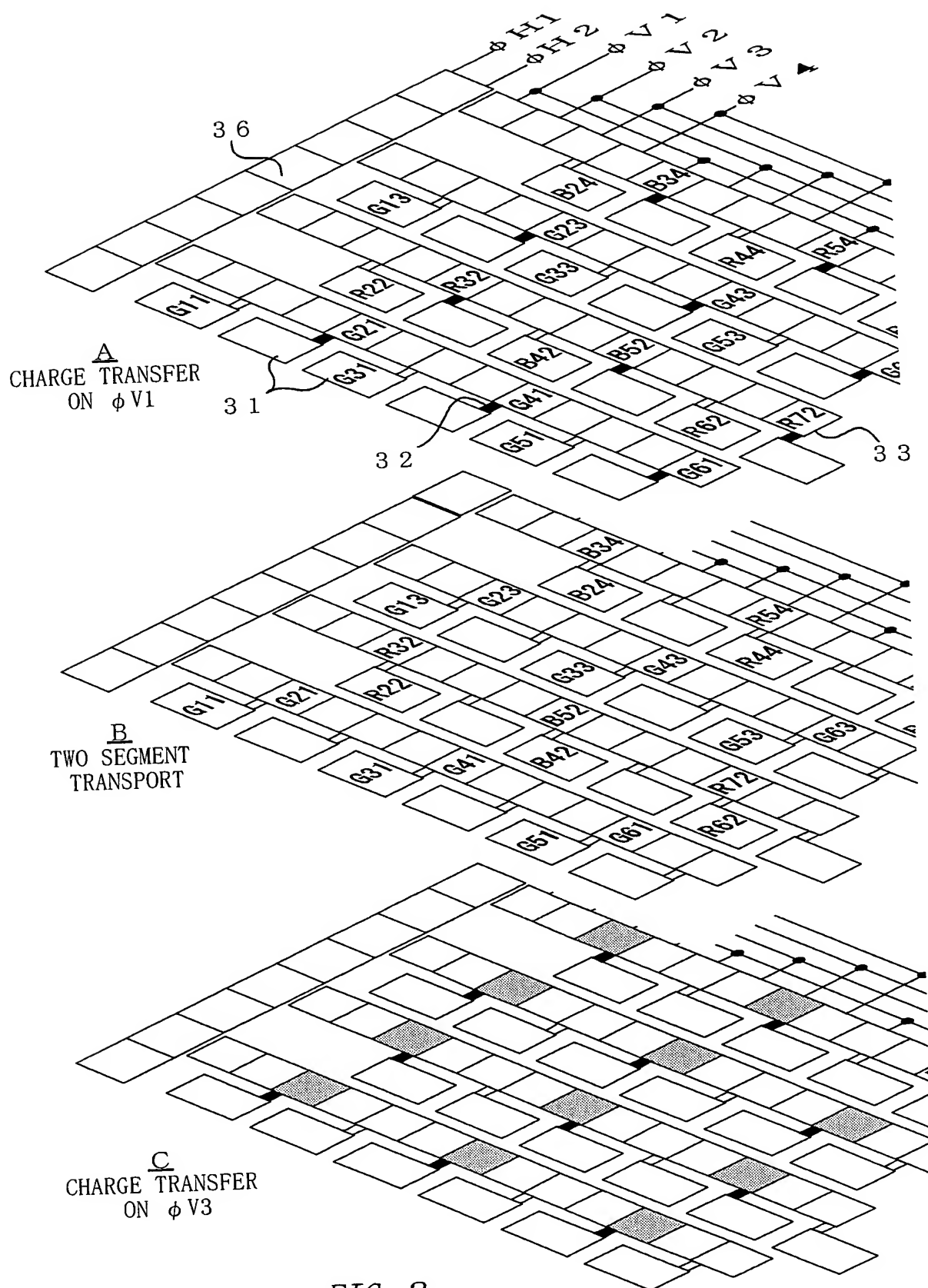


FIG. 3

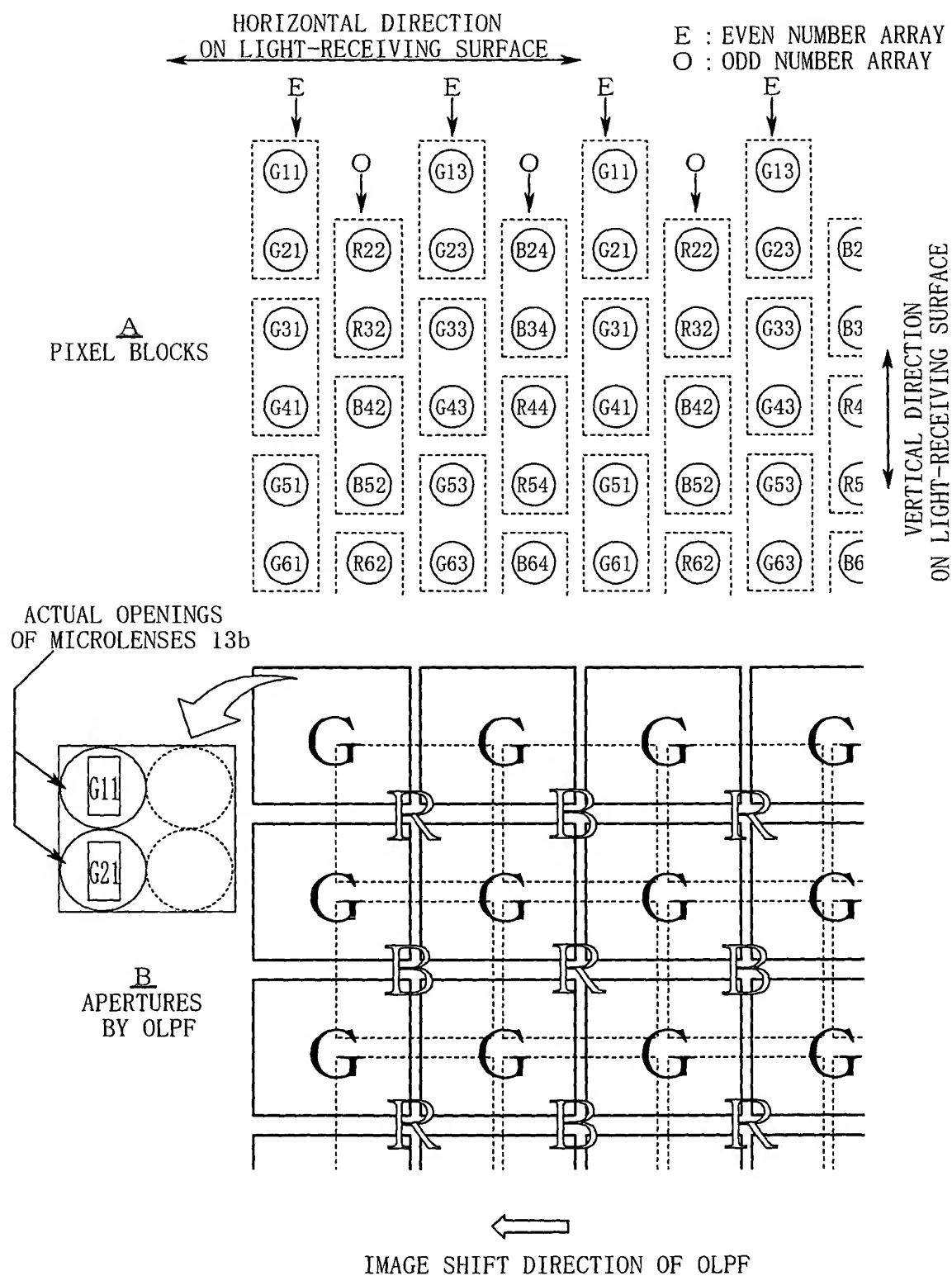
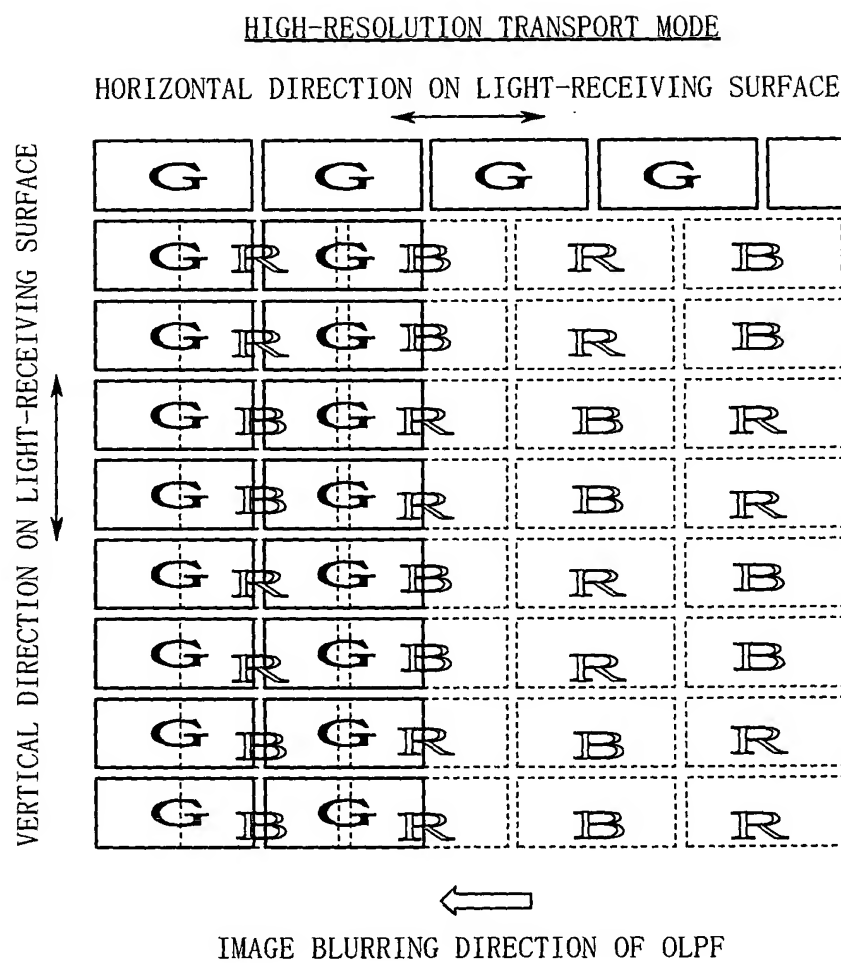


FIG. 4



*FIG. 5*

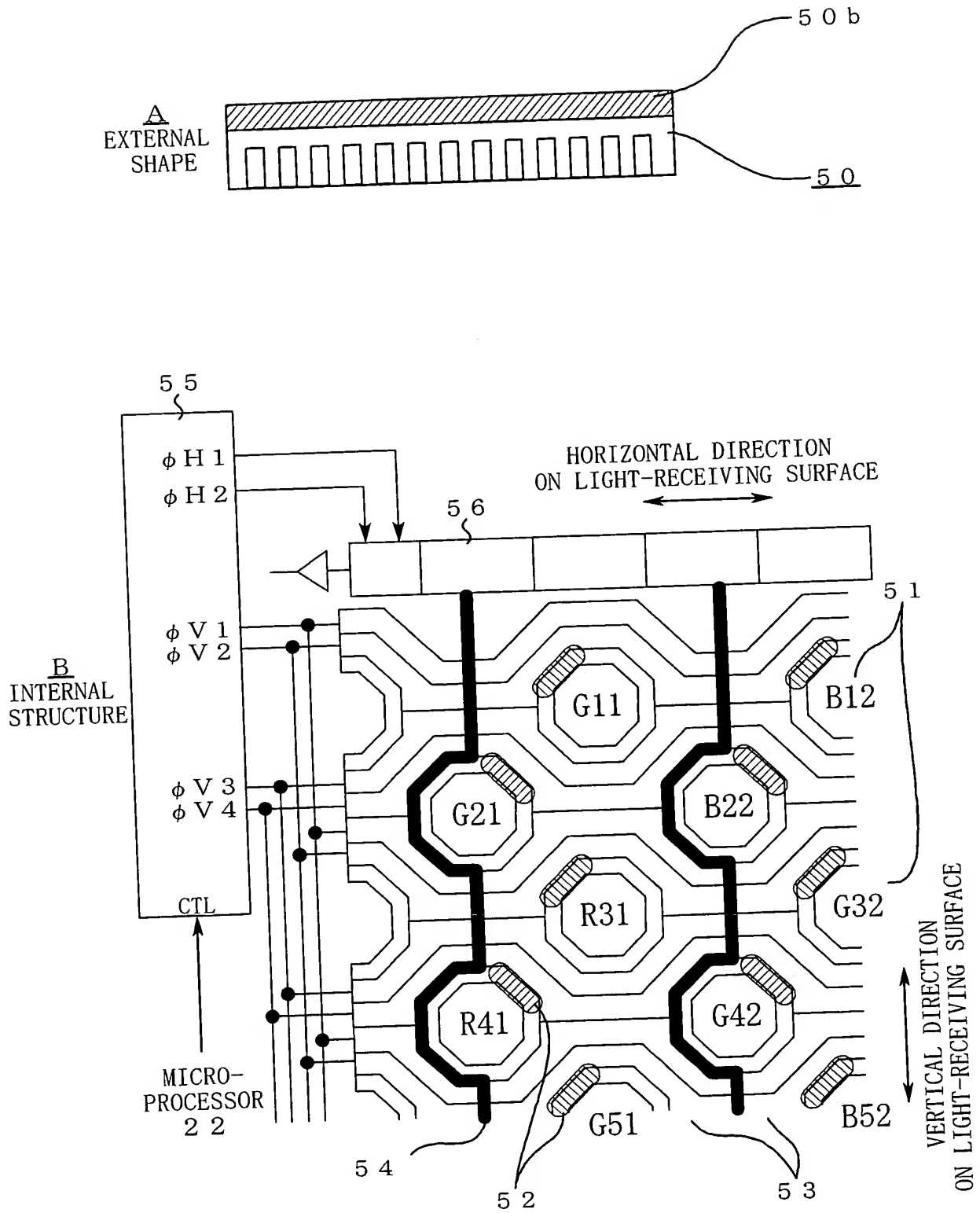


FIG. 6

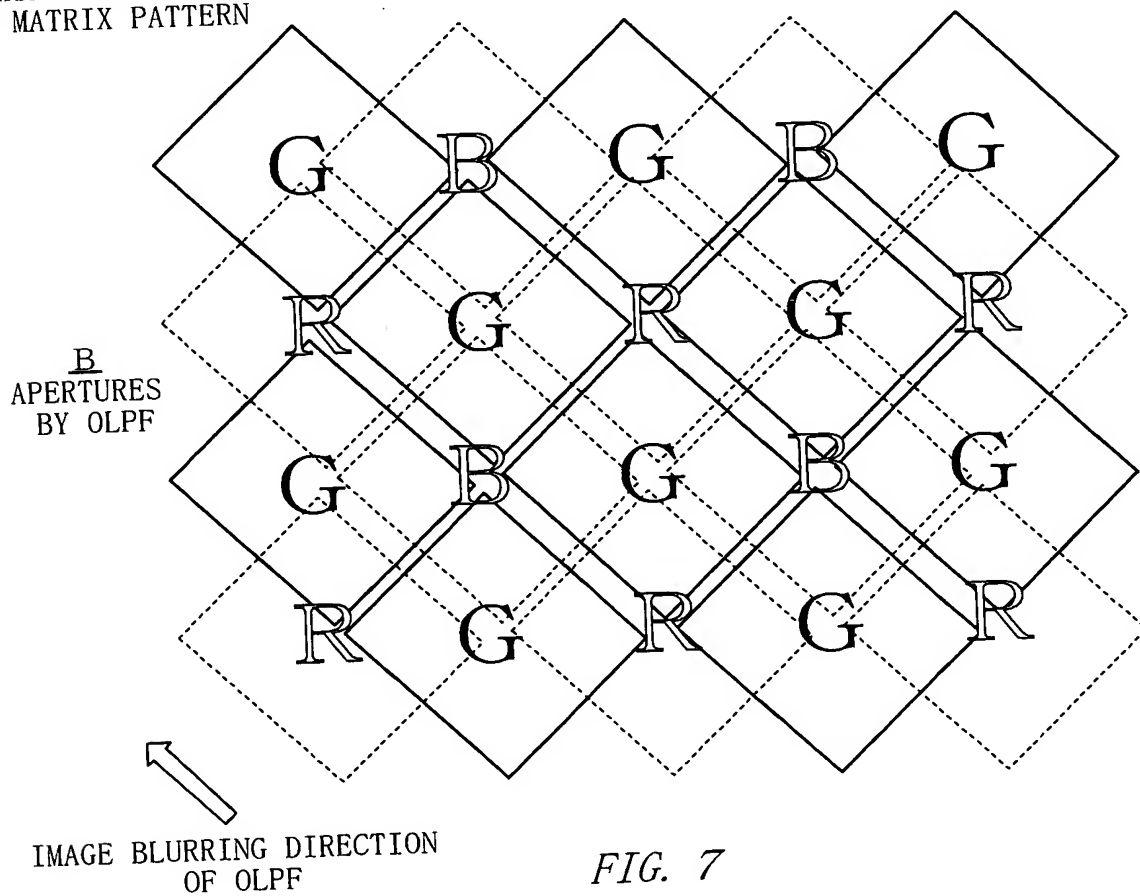
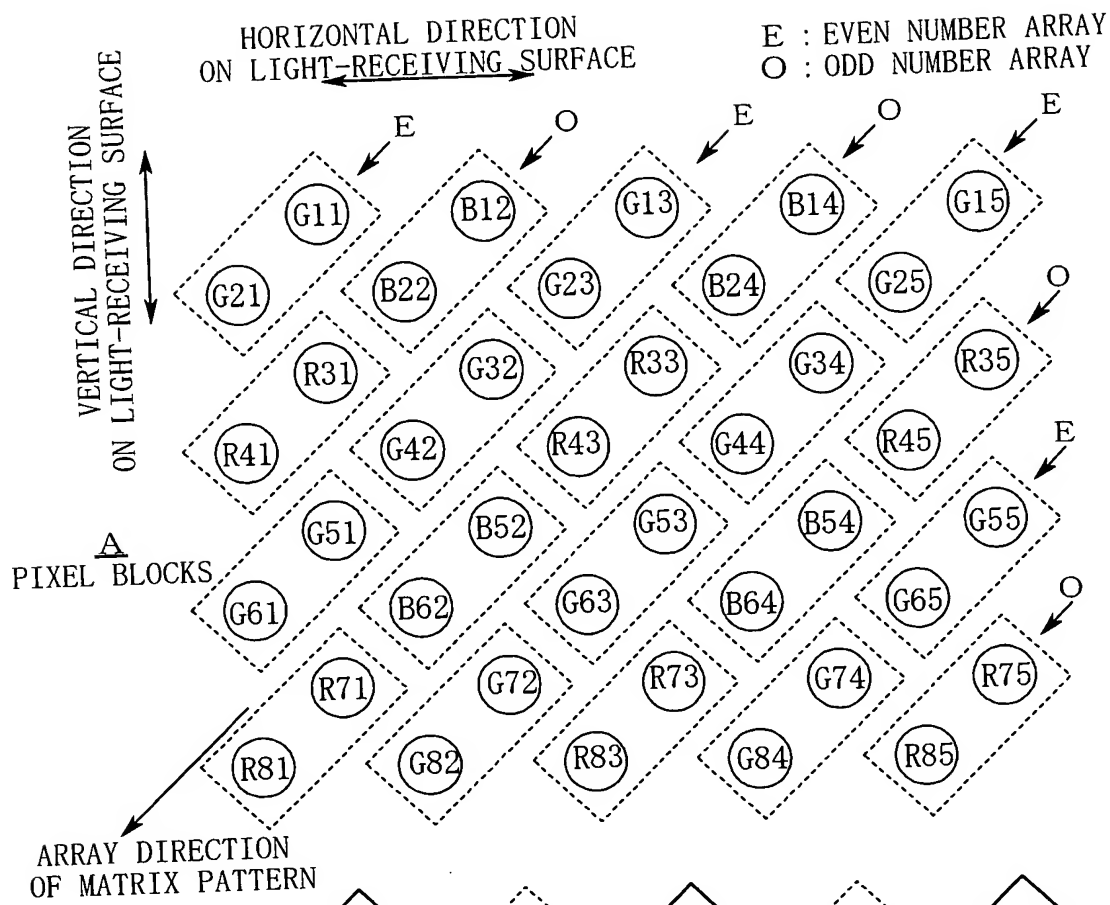


FIG. 7

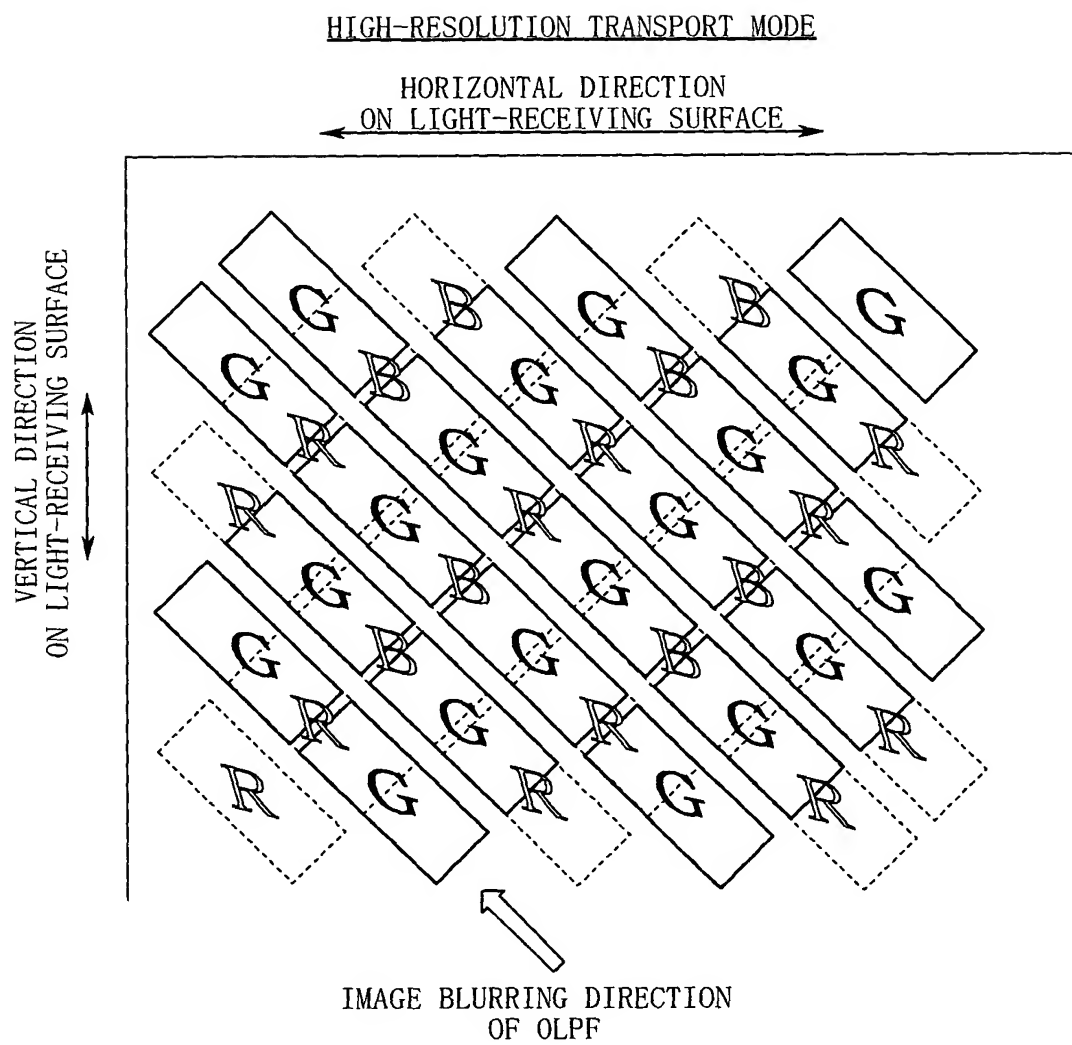


FIG. 8



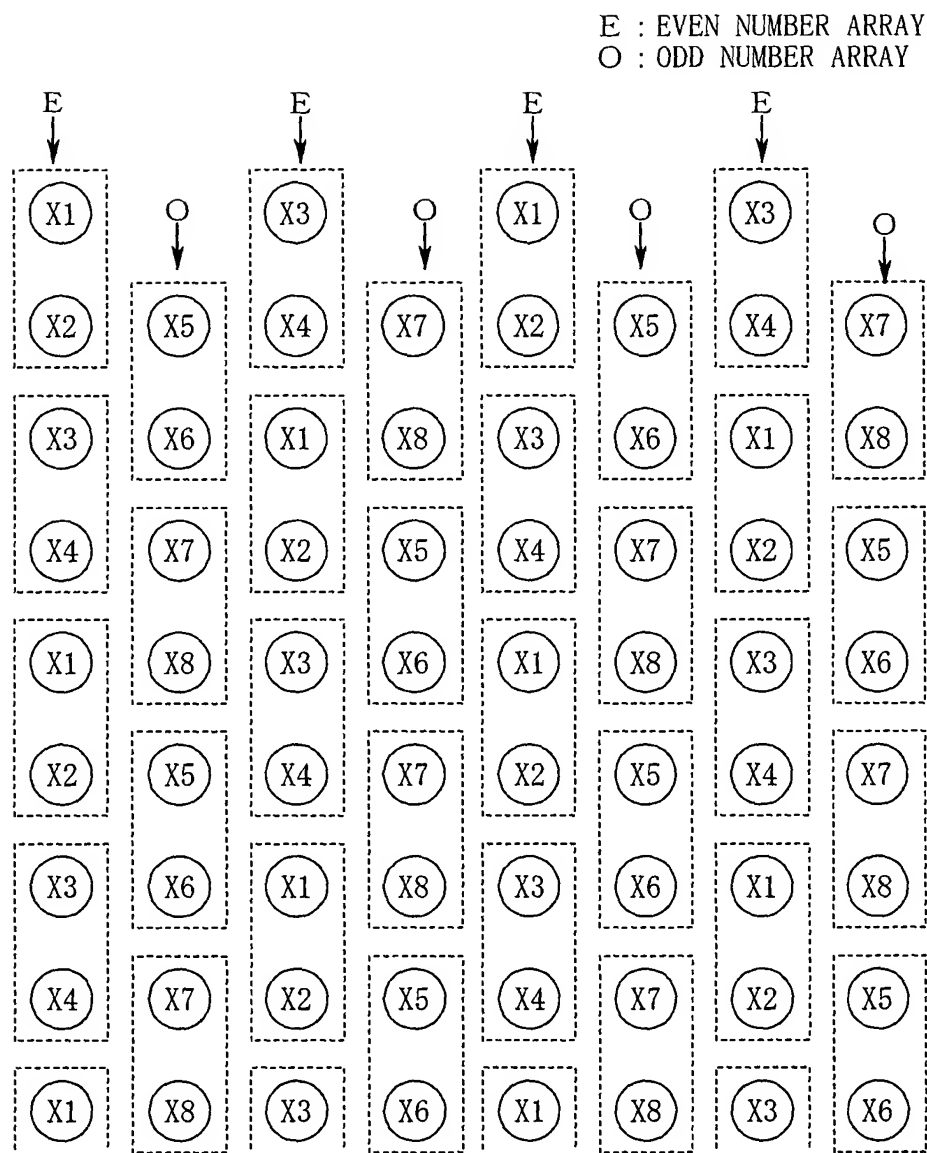


FIG. 9

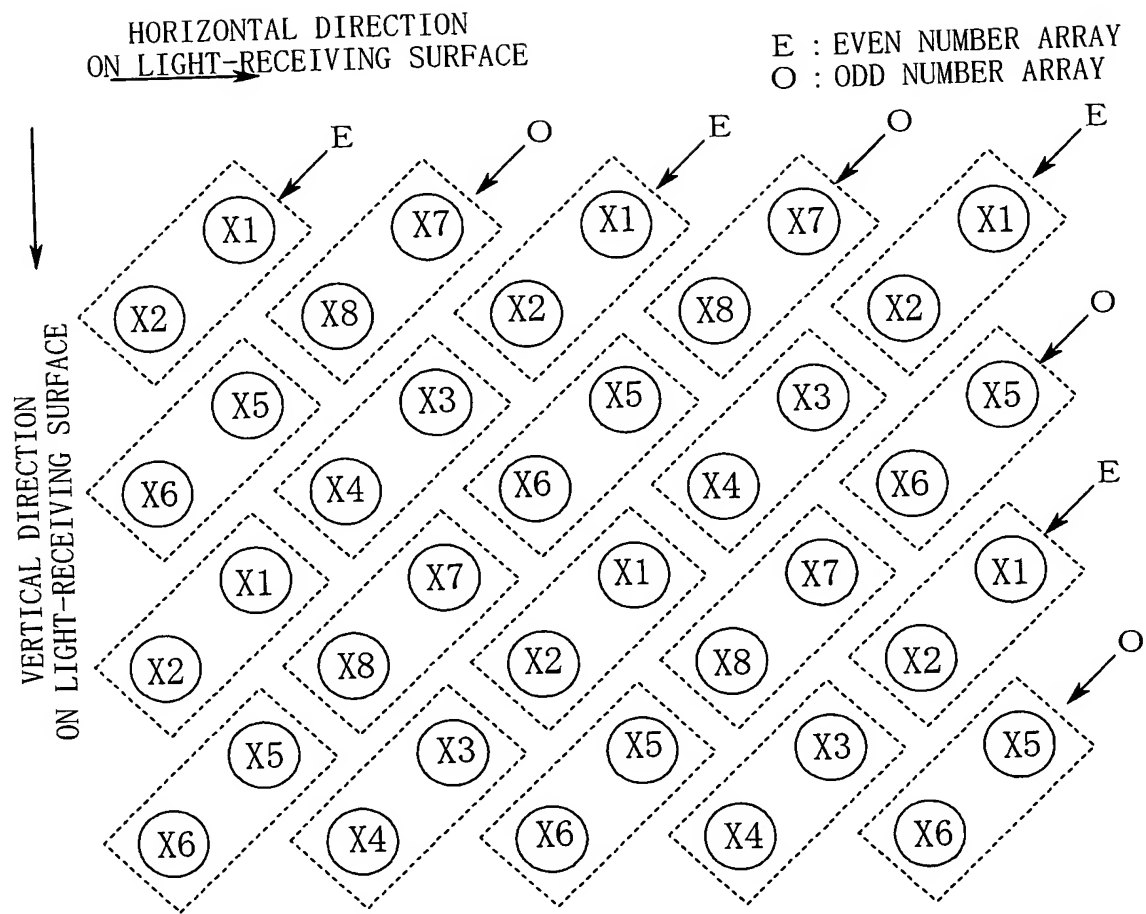


FIG. 1 O

	X1	X2	X3	X4	X5	X6	X7	X8
CFA PATTERN 1	G	G	G	G	R	R	B	B
CFA PATTERN 2	Y	Y	Y	Y	R	R	B	B
CFA PATTERN 3	Cy	Cy	Mg	Mg	G	G	Ye	Ye
CFA PATTERN 4	a1	a1	a2	a2	a3	a3	a4	a4

*FIG. 1 1*

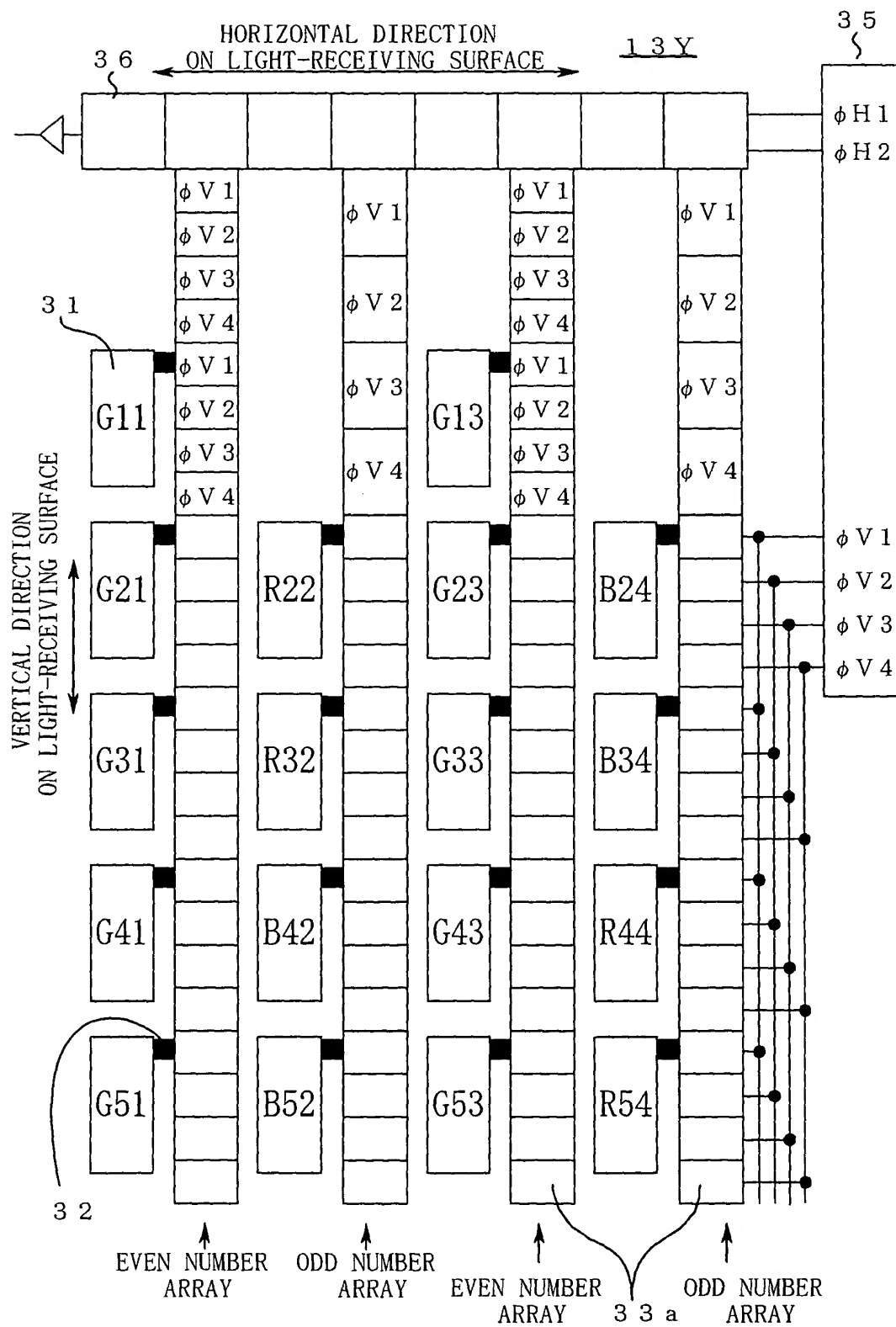


FIG. 1 2

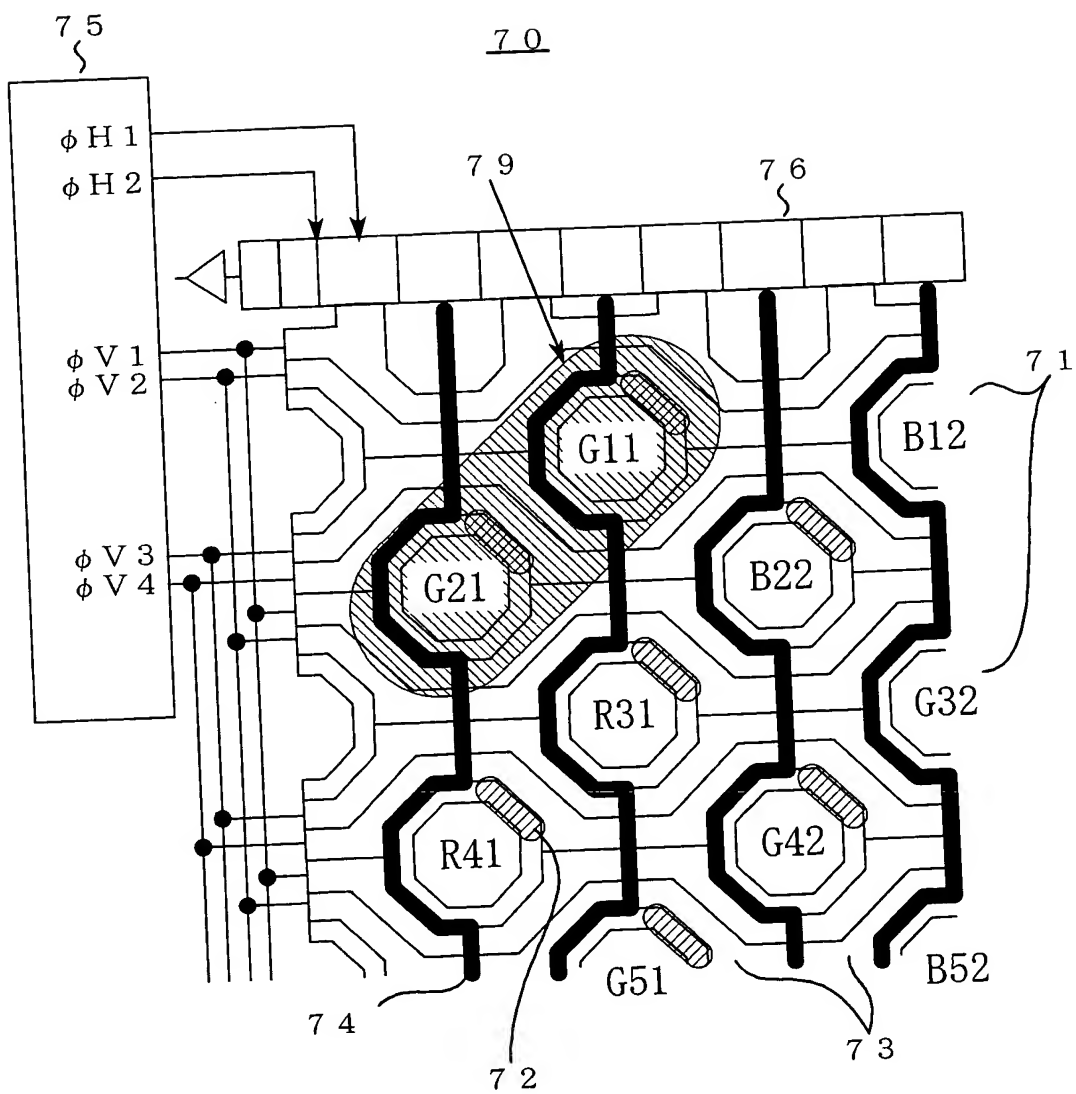
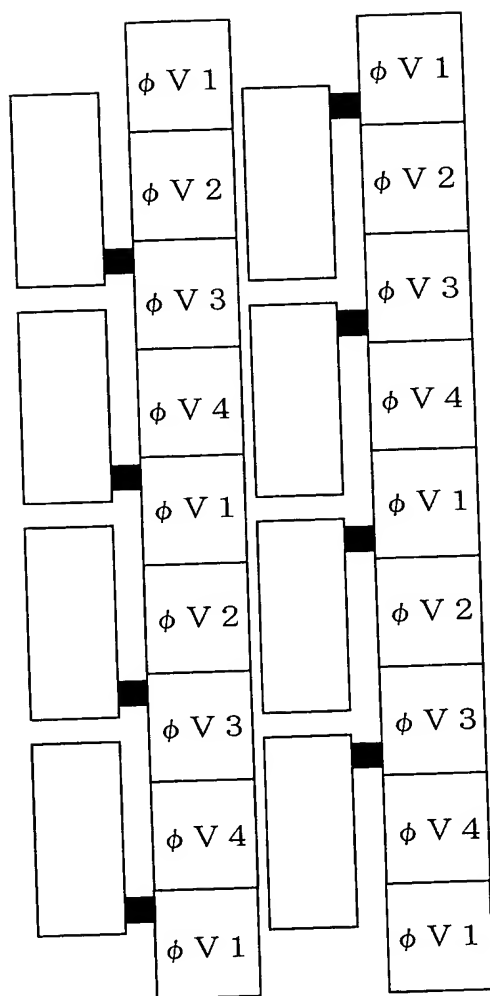


FIG. 13

[A PATTERN]



[B PATTERN]

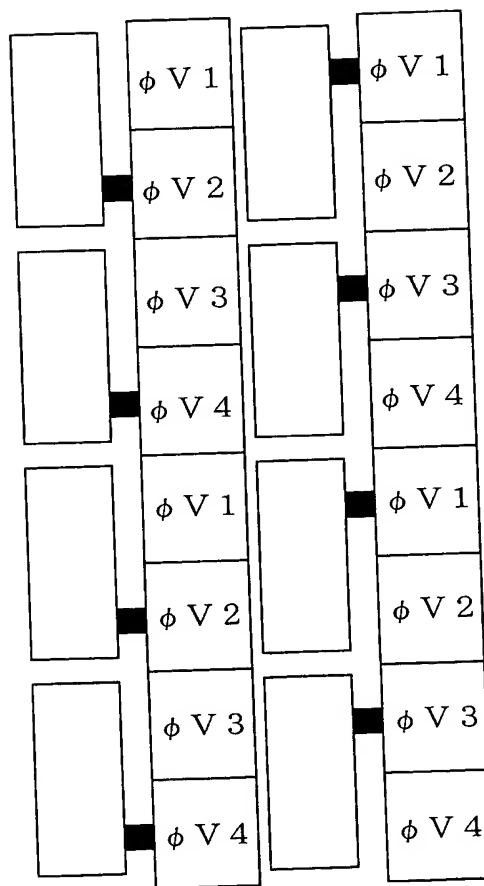
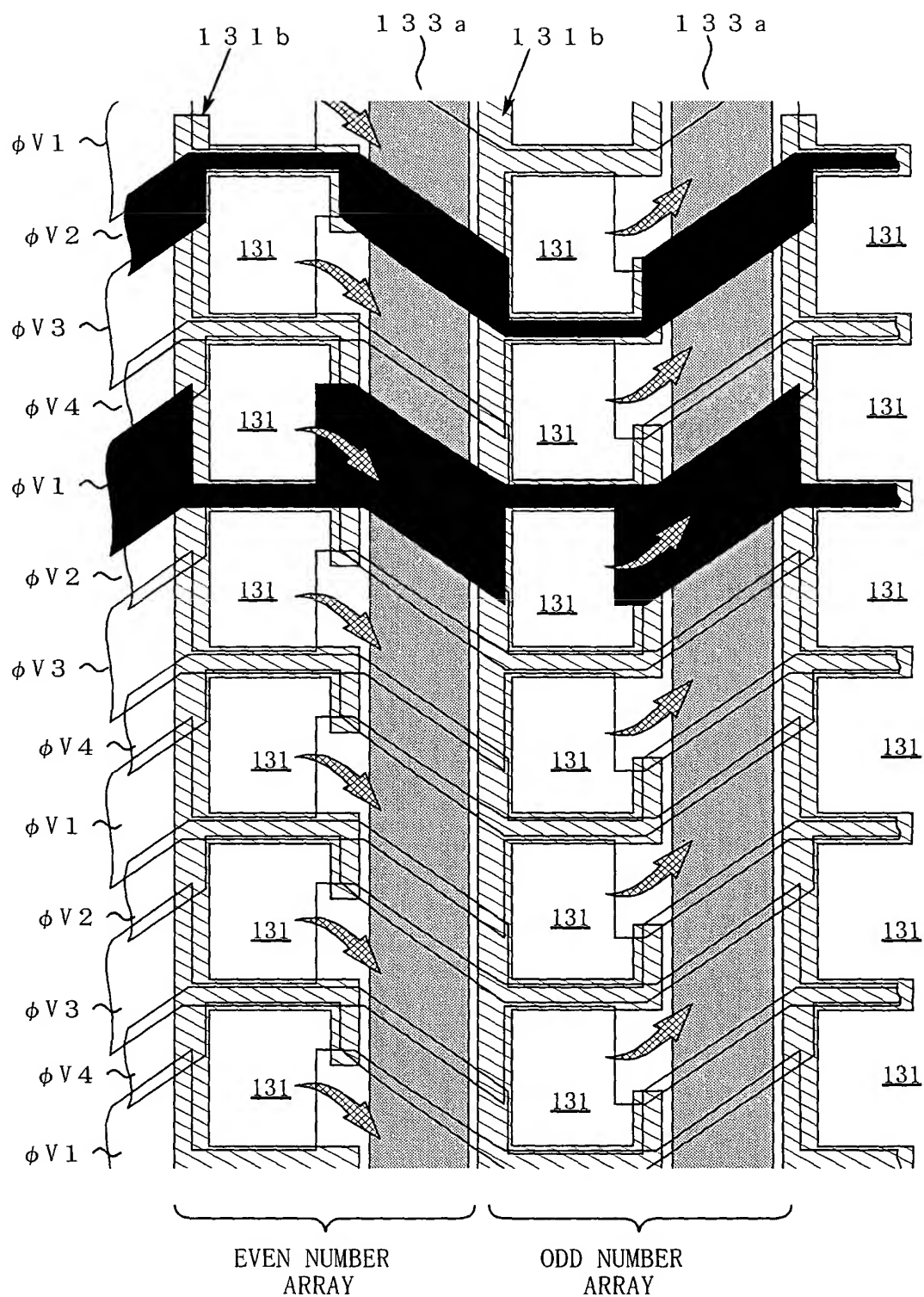


FIG. 1 4









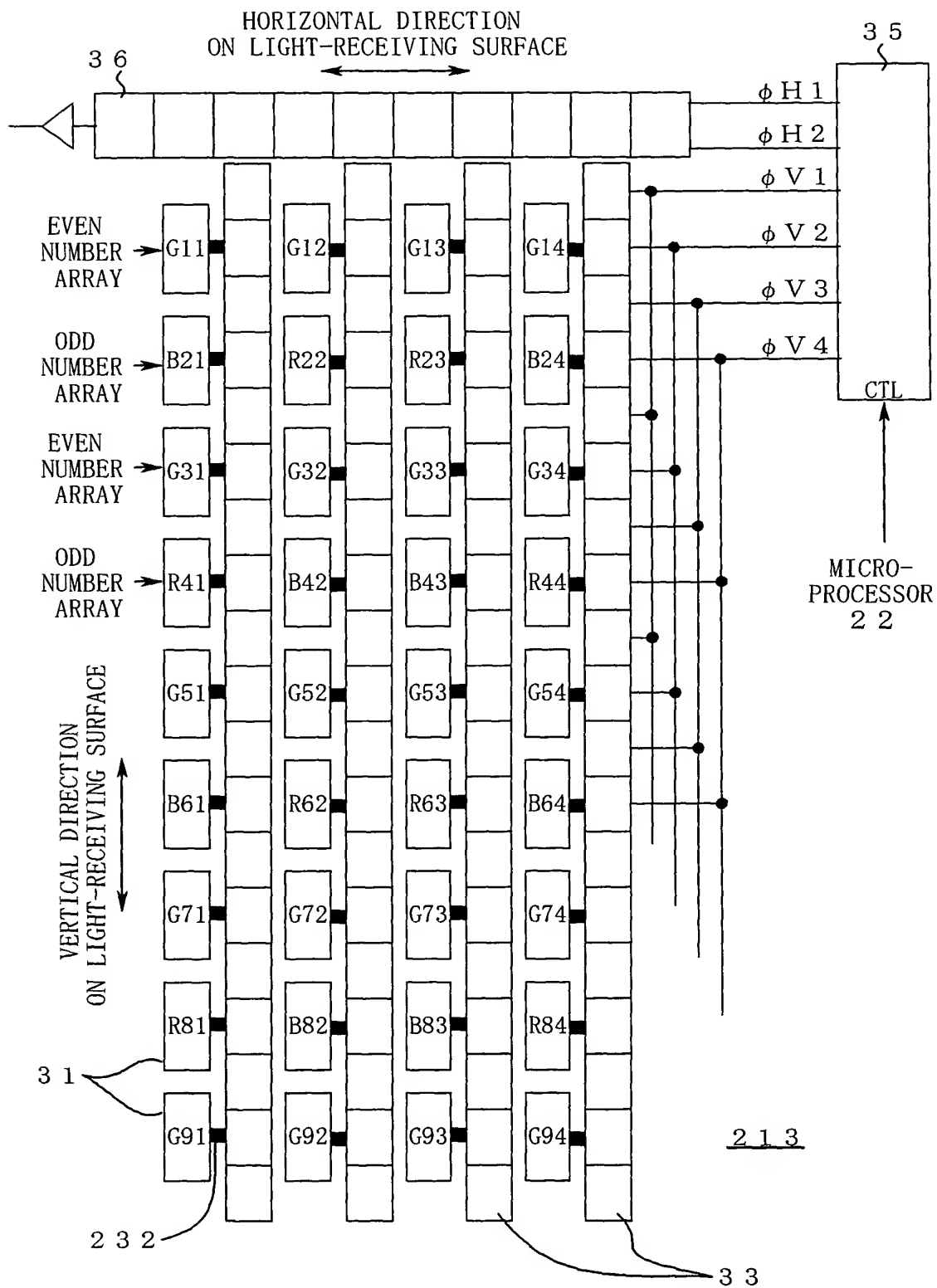


FIG. 18

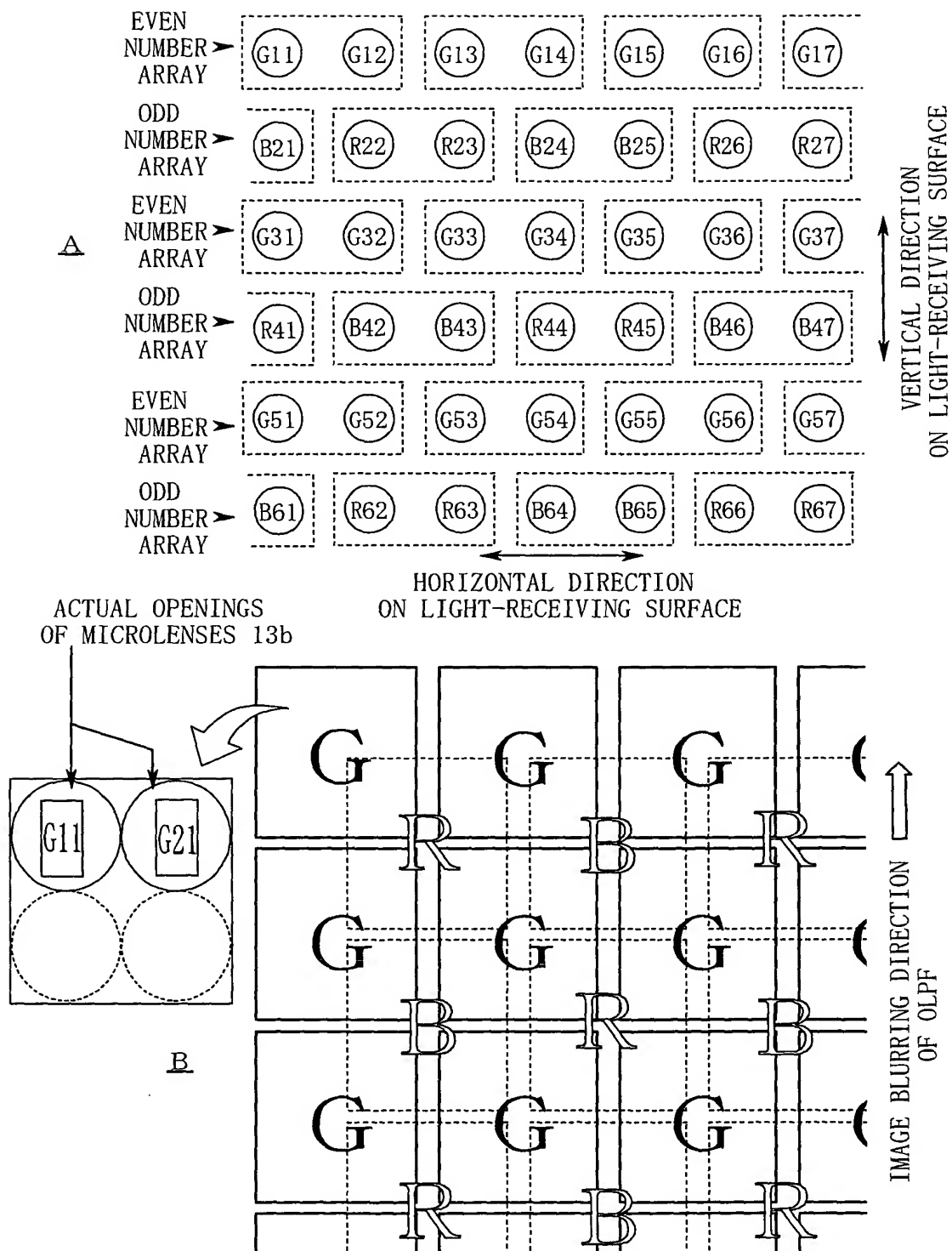


FIG. 19

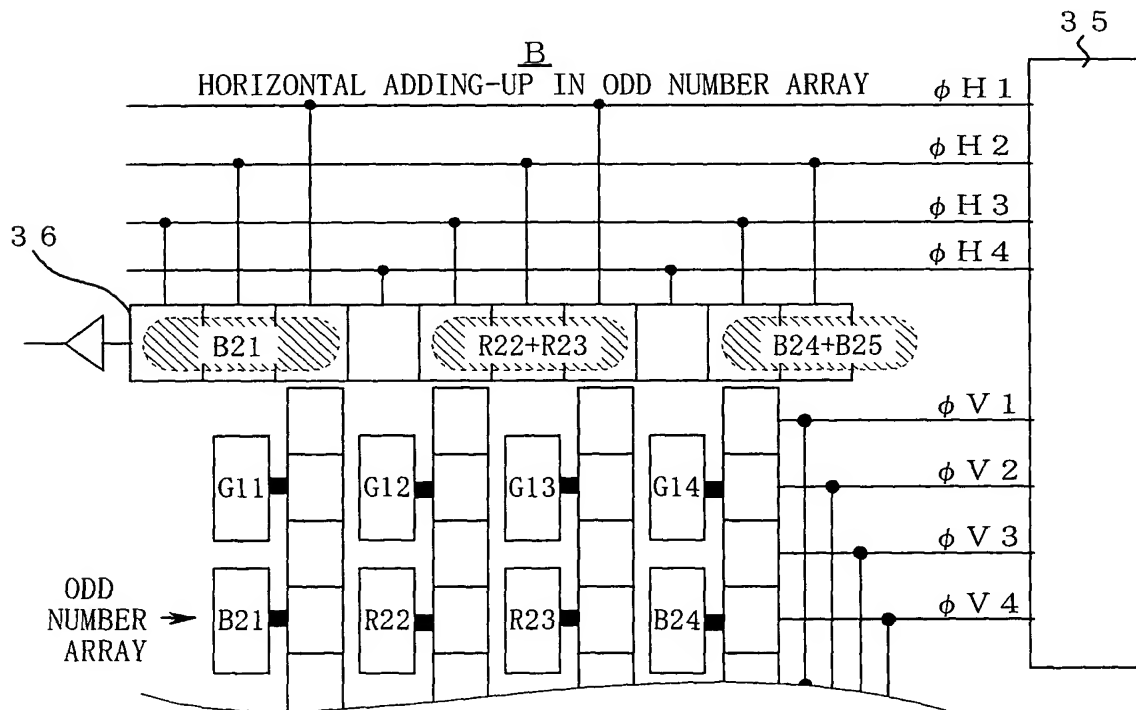
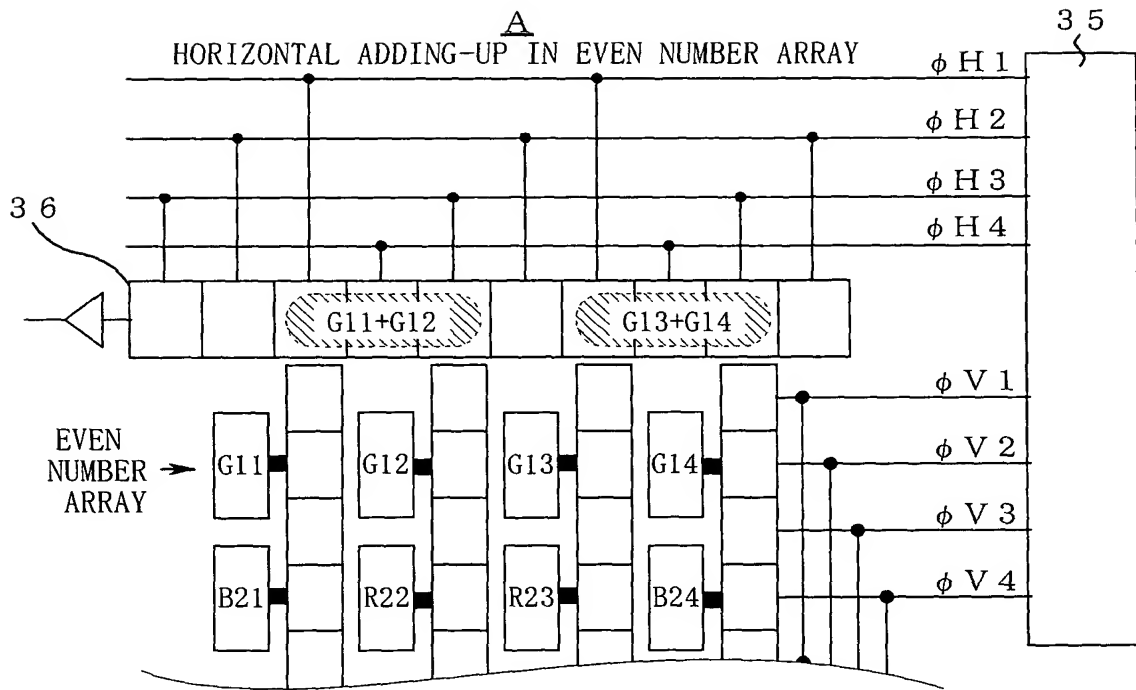


FIG. 20



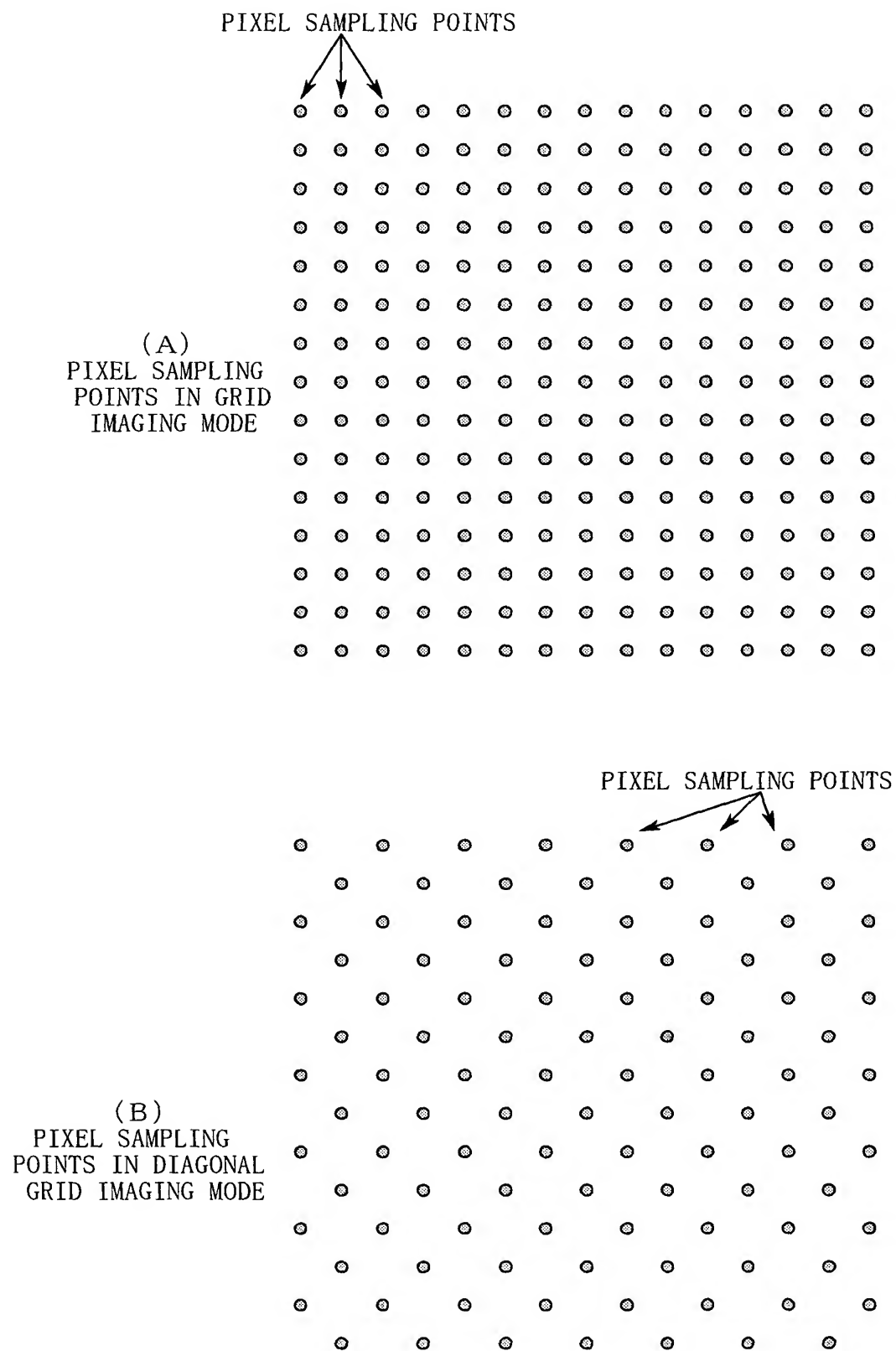


FIG. 2 2

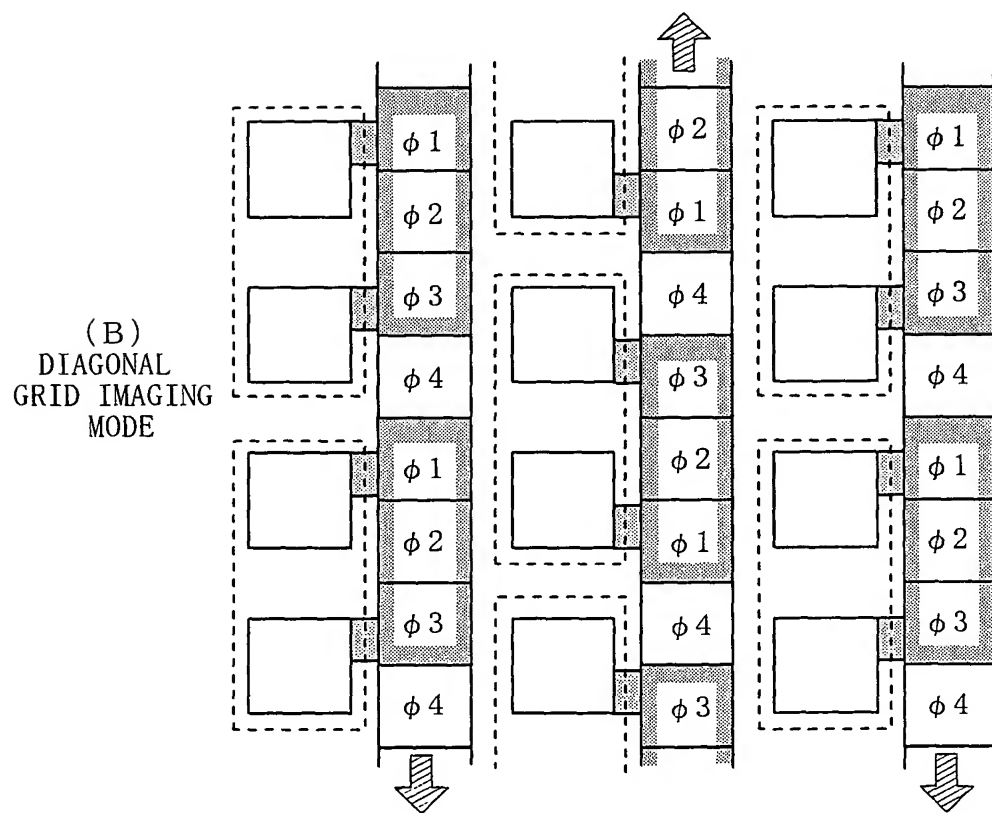
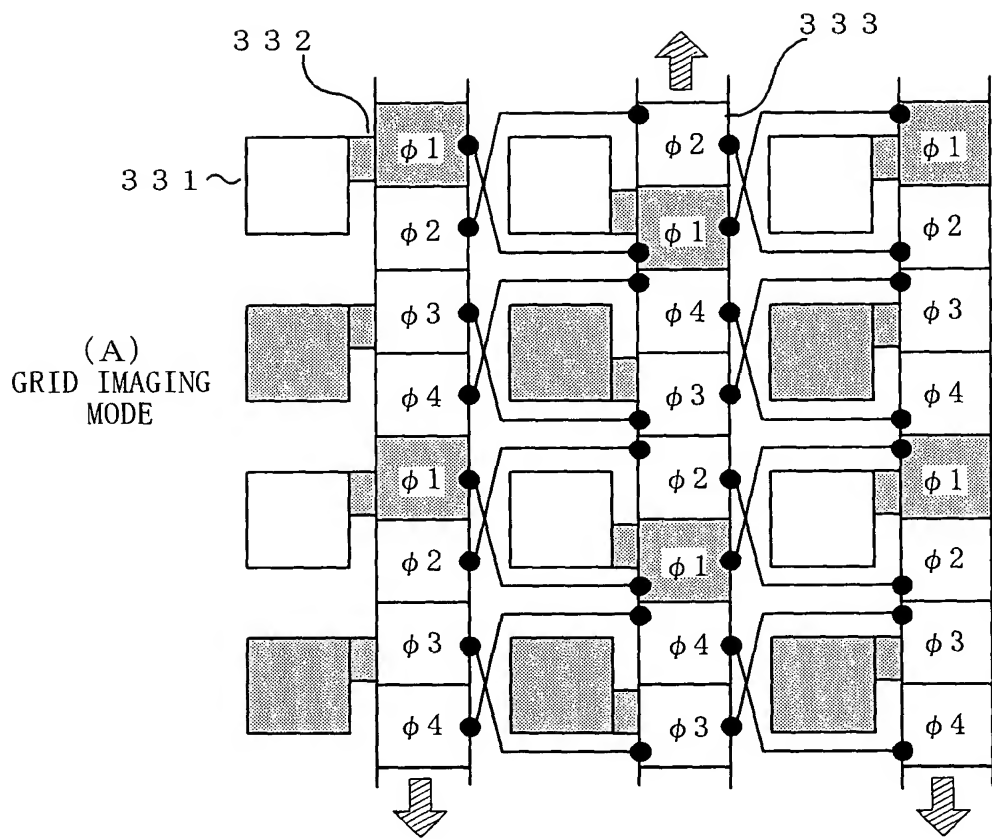
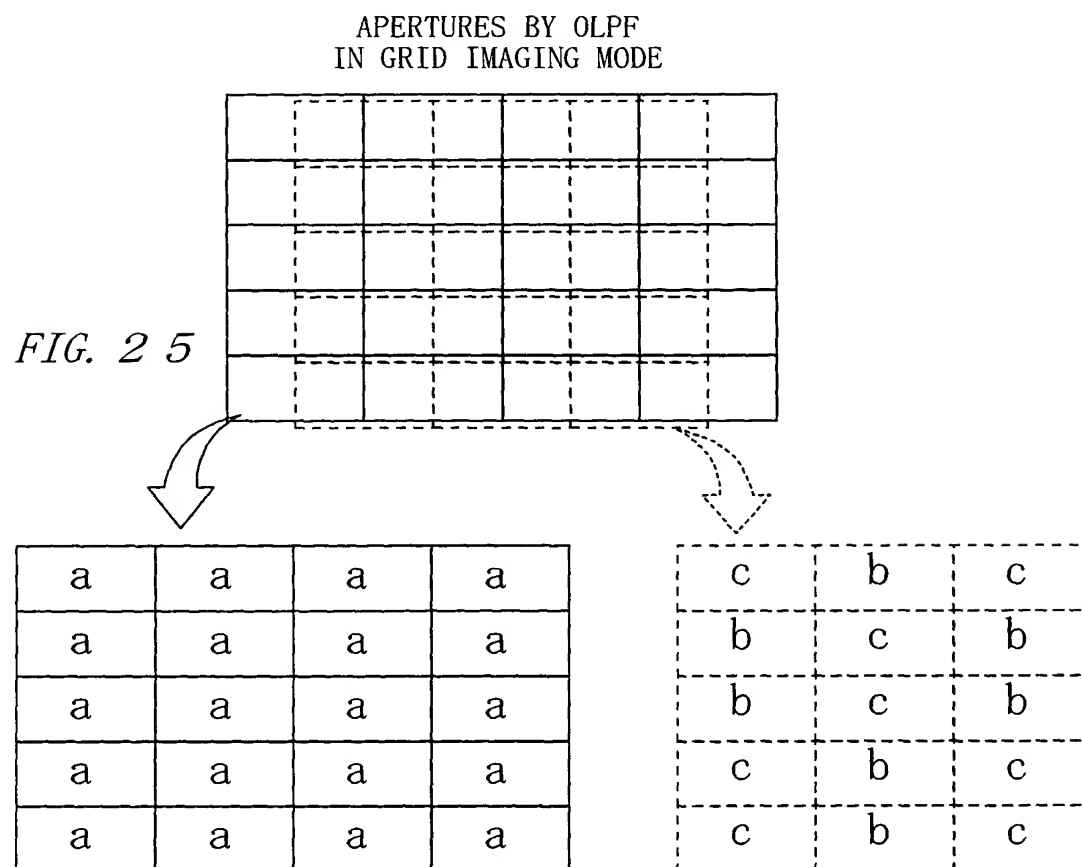
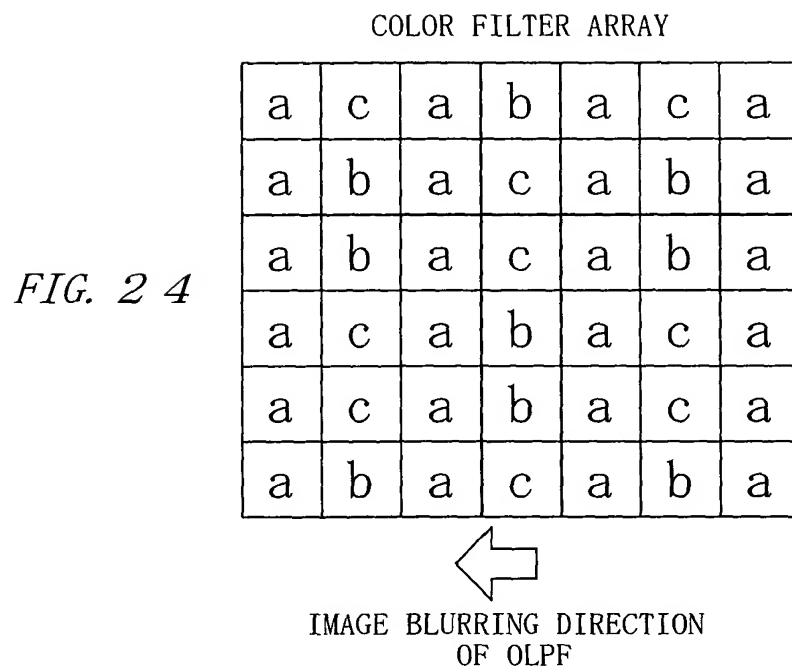
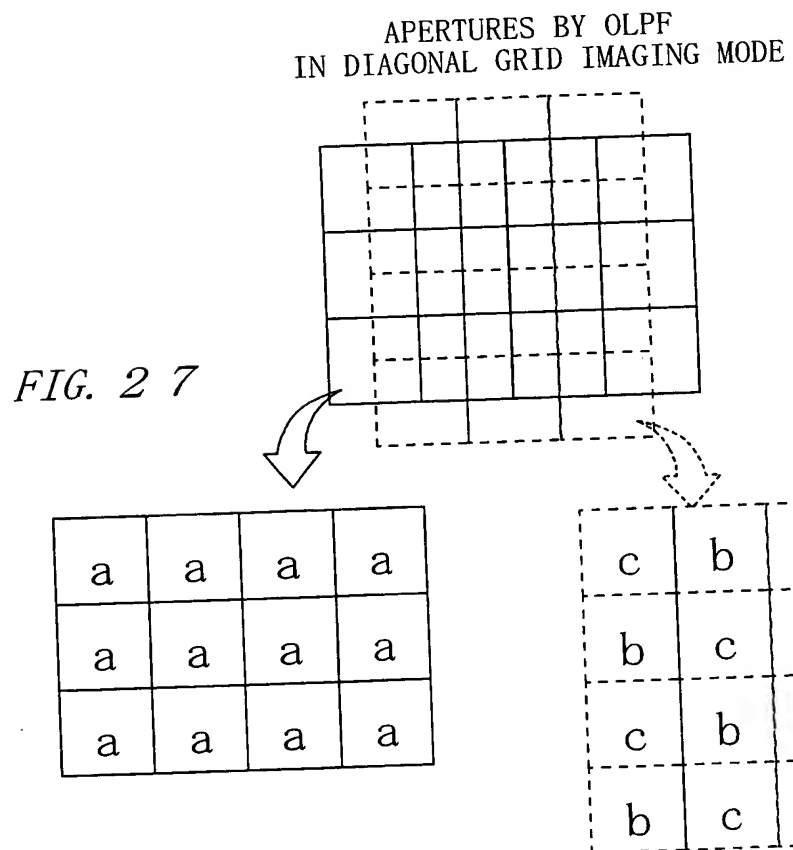
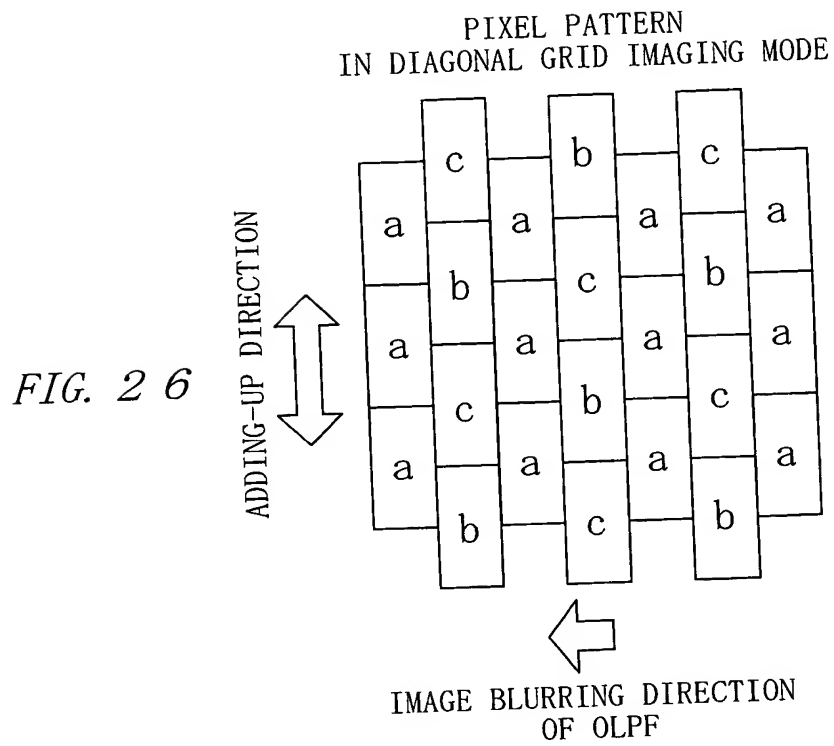


FIG. 23







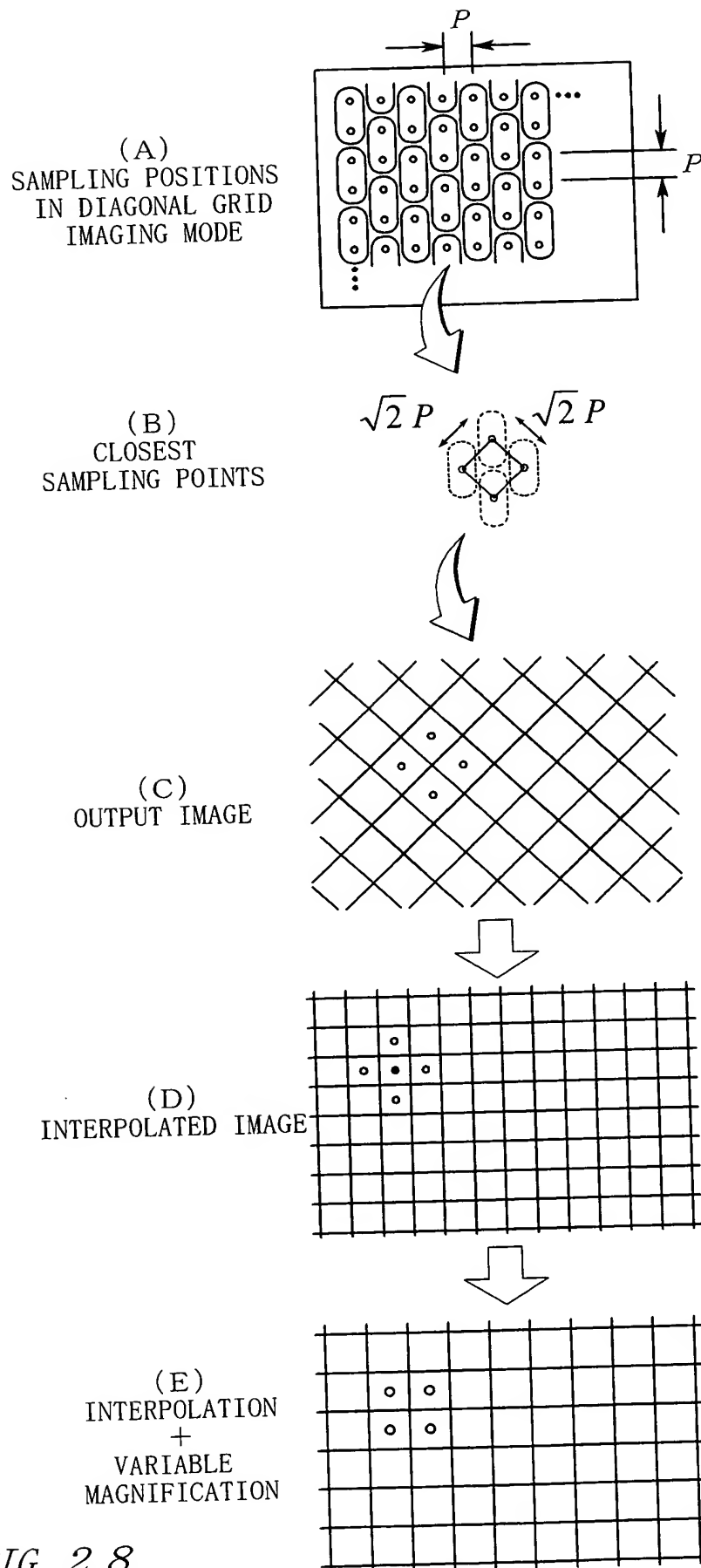
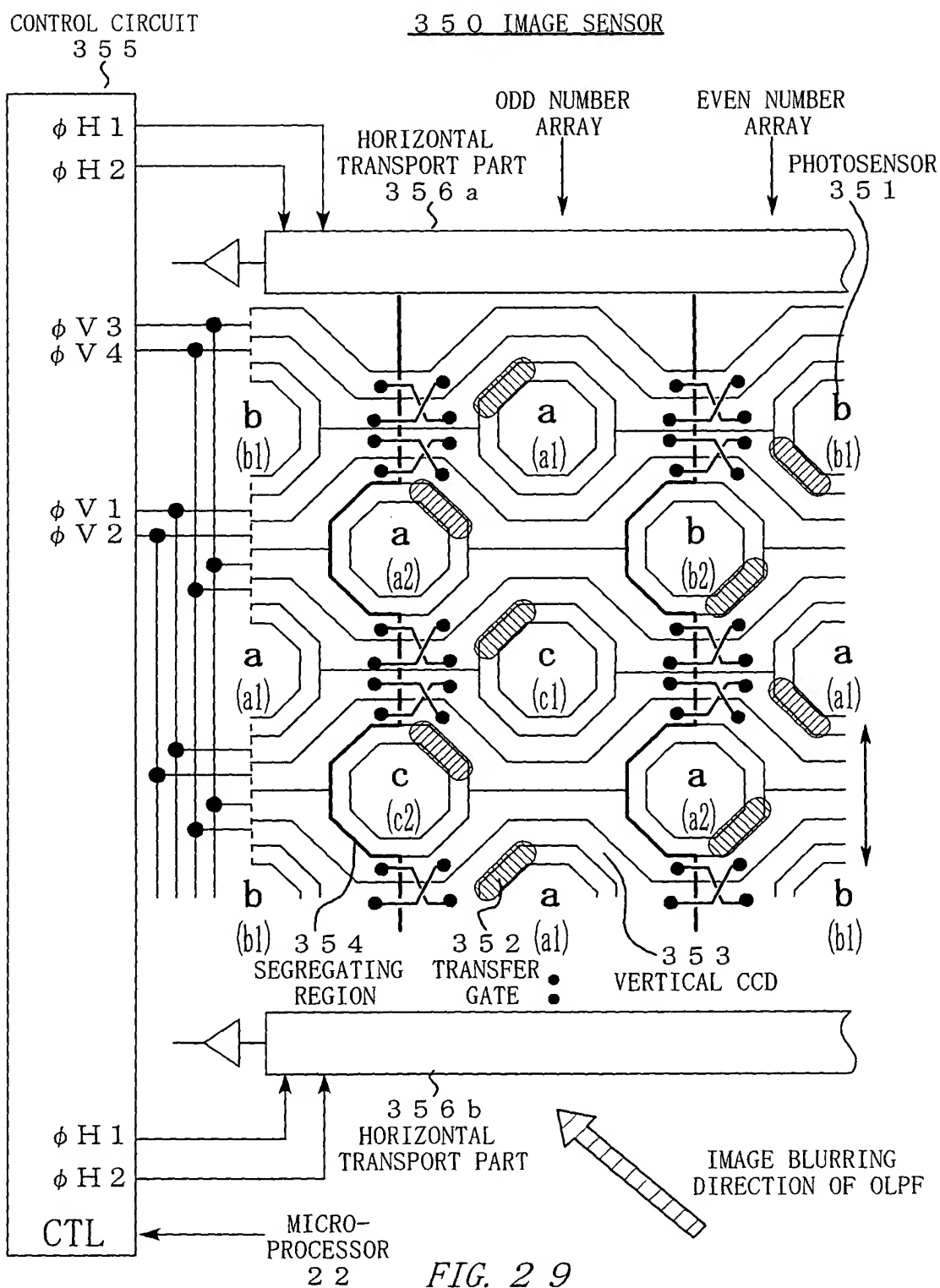


FIG. 28



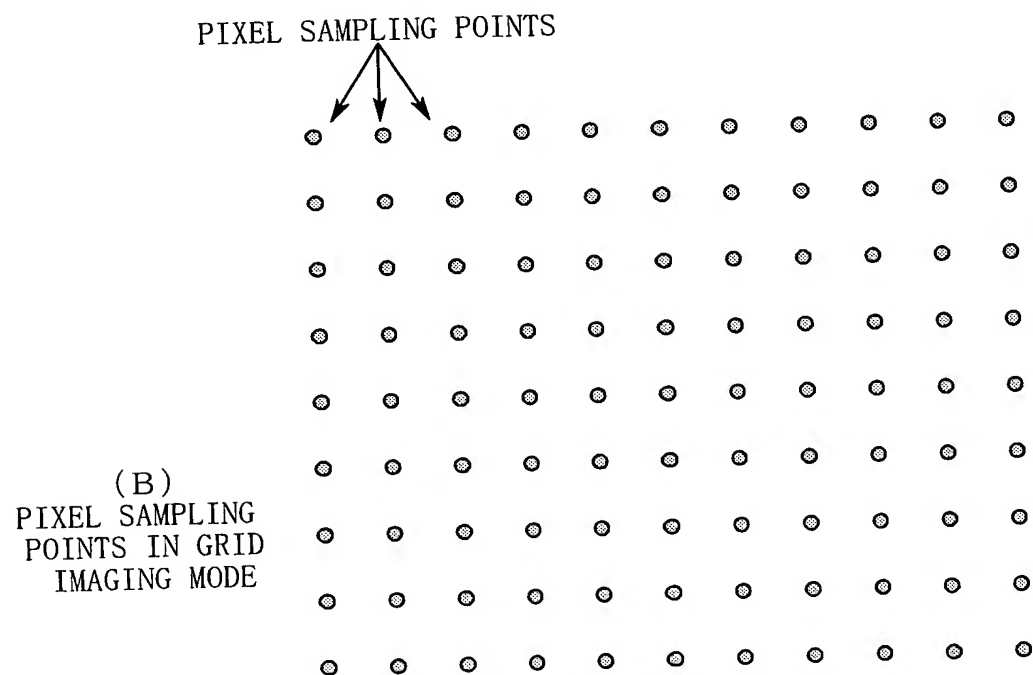
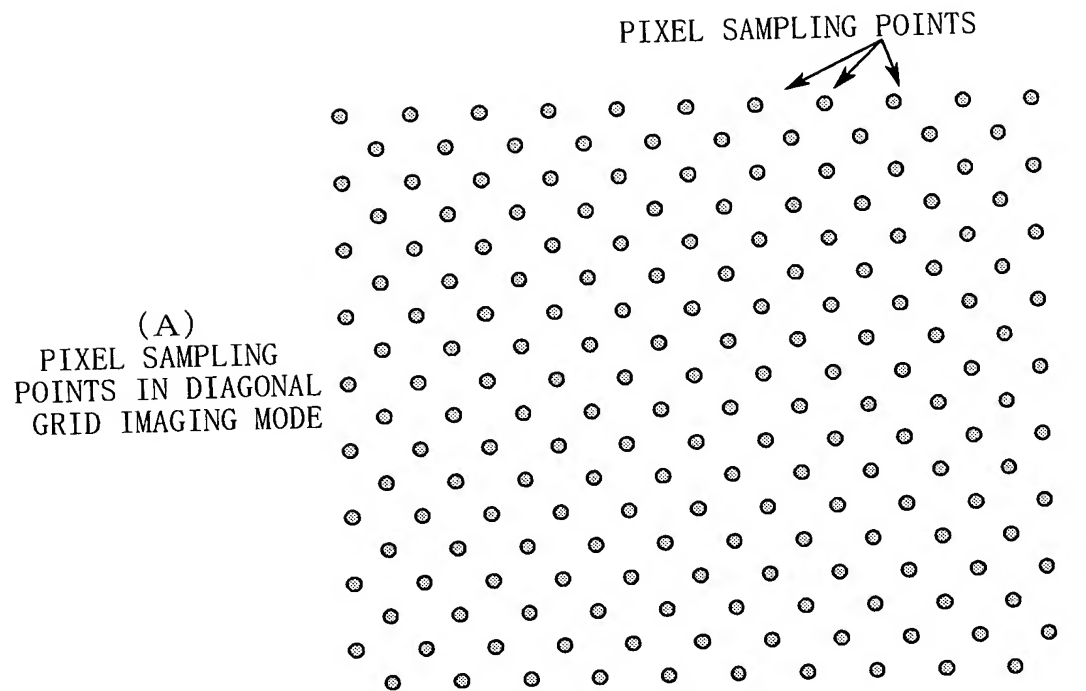


FIG. 3 0

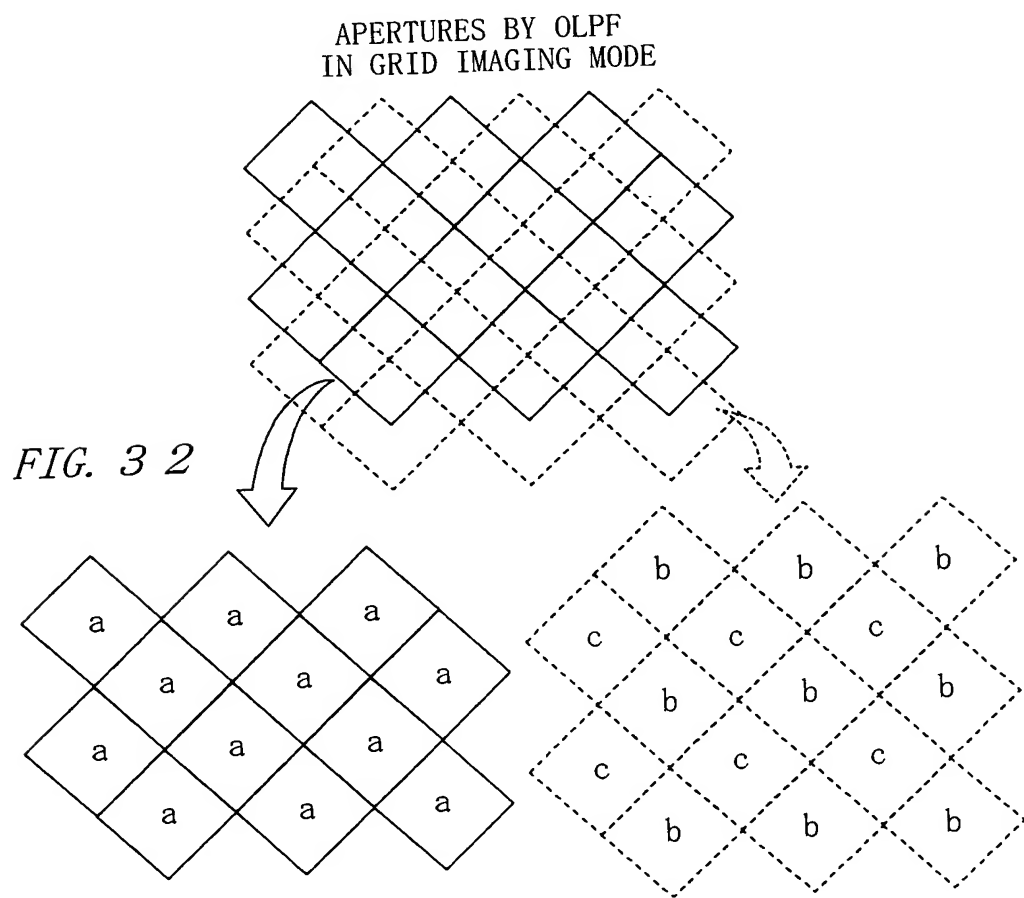
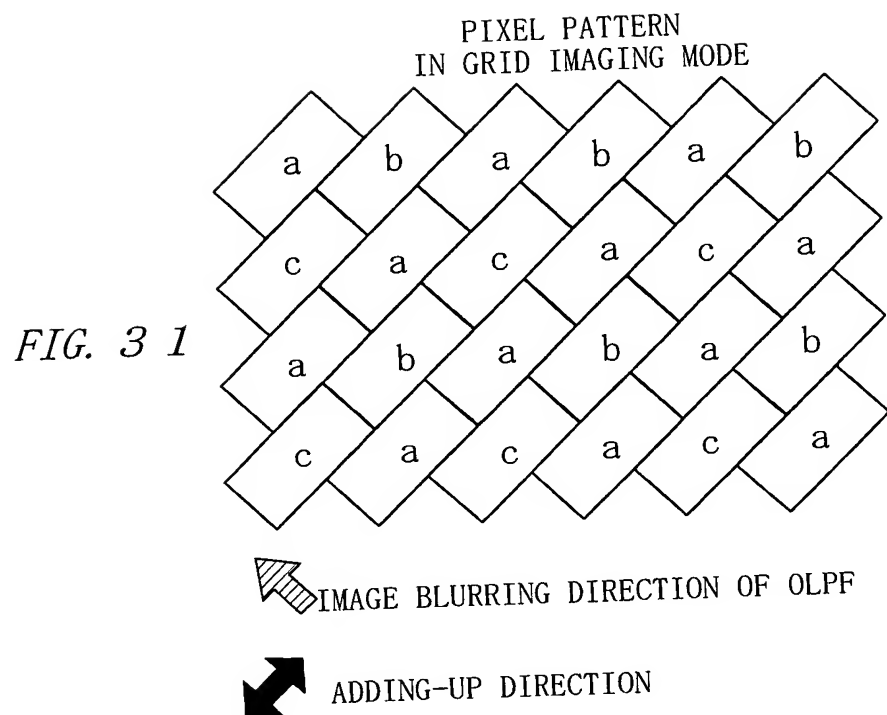


FIG. 3 3

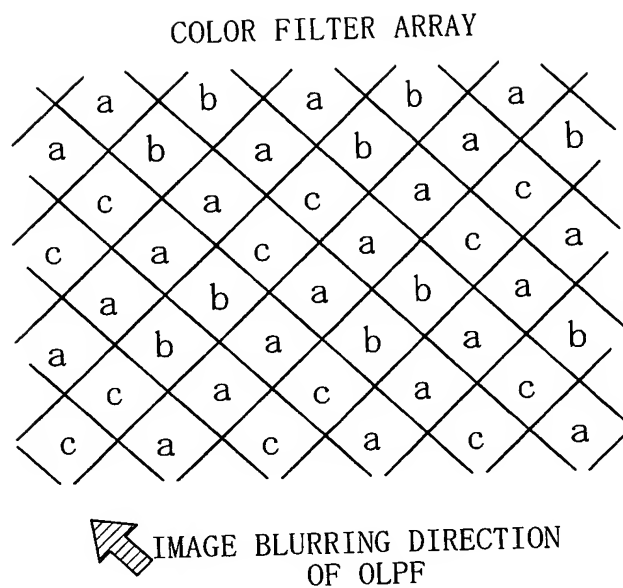
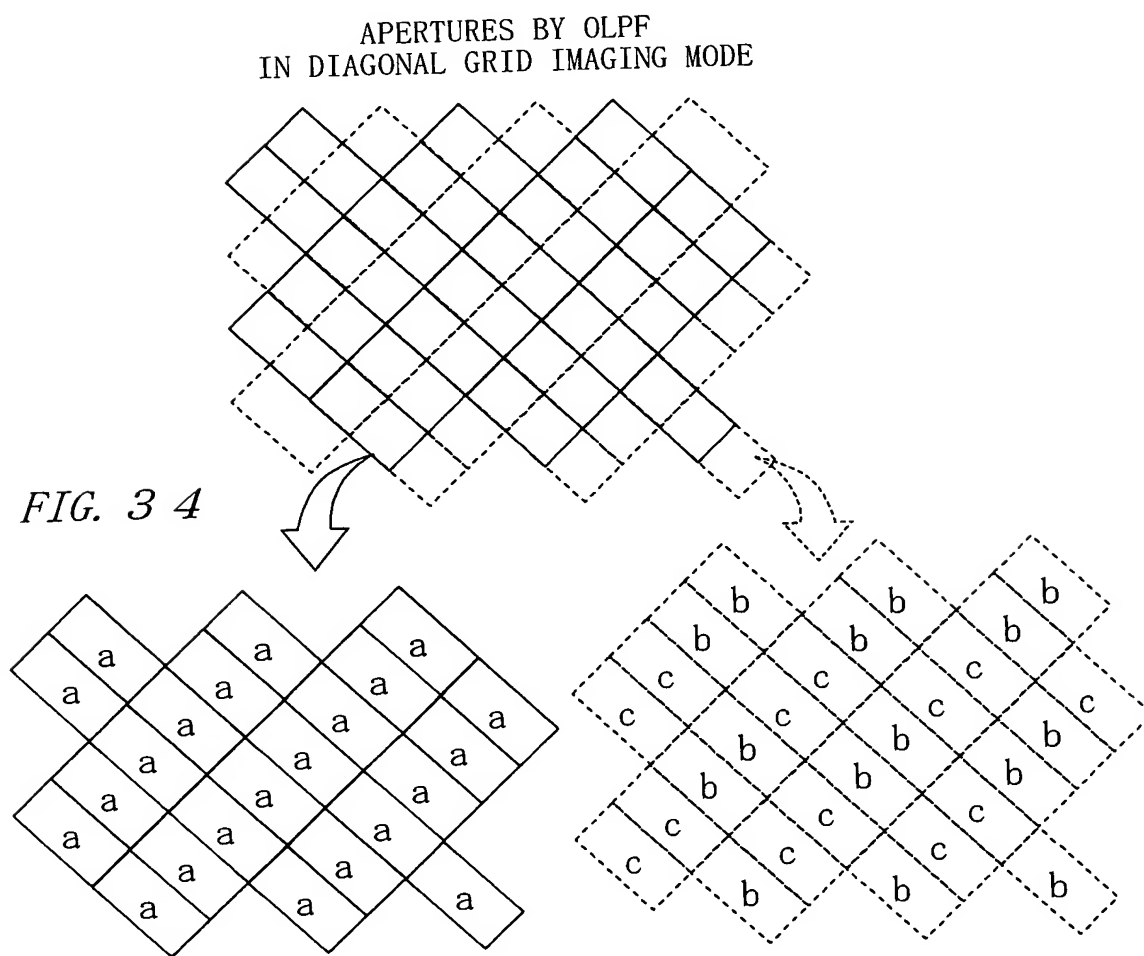


FIG. 3 4



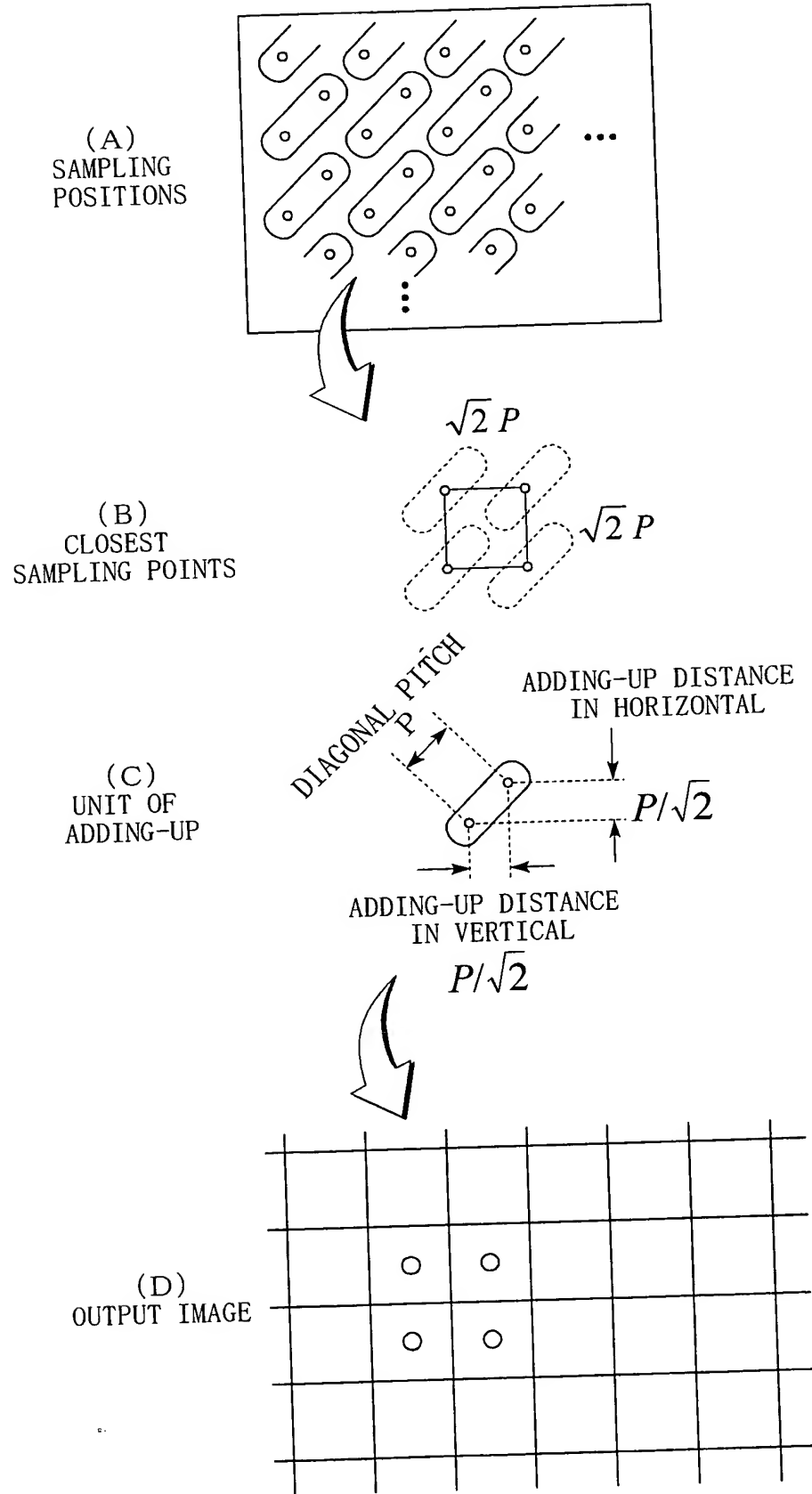
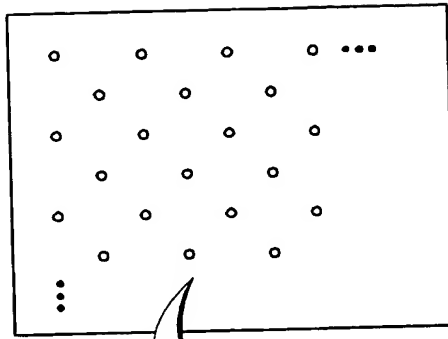
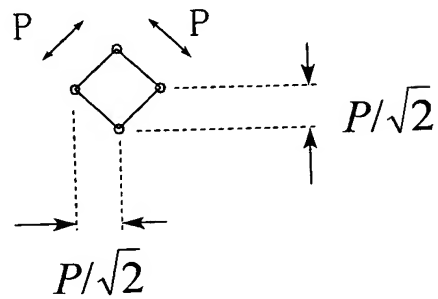


FIG. 3 5

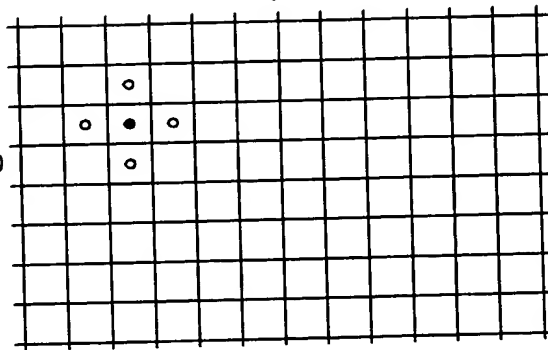
(A)  
SAMPLING  
POSITIONS



(B)  
CLOSEST  
SAMPLING POINTS



(C)  
INTERPOLATED  
IMAGE



(D)  
INTERPOLATION  
+  
VARIABLE  
MAGNIFICATION

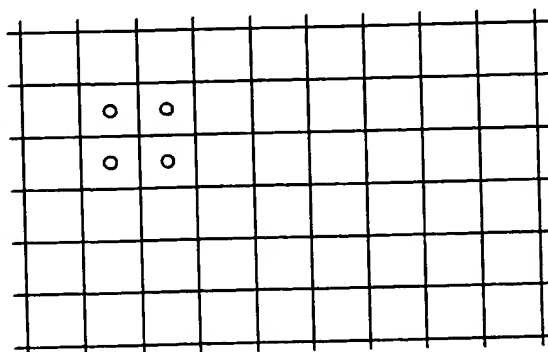


FIG. 3 6



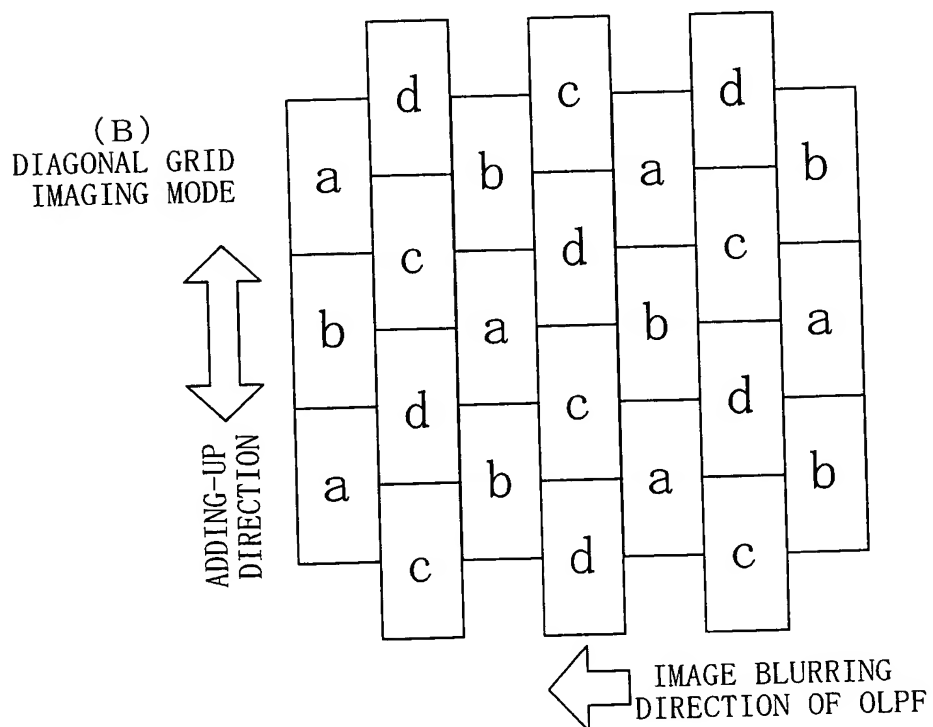
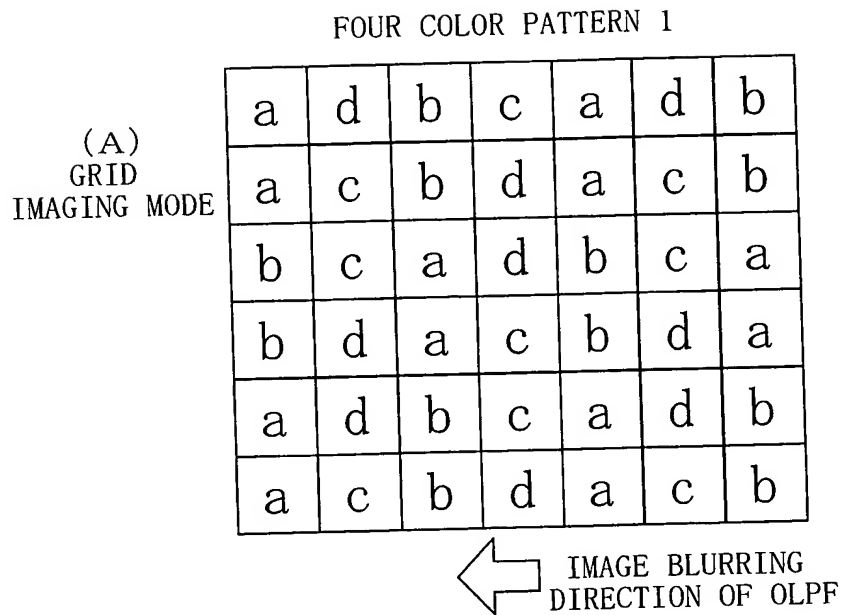


FIG. 3 7

FOUR COLOR PATTERN 2

(A)  
GRID IMAGING  
MODE

a	d	a	c	a	d	a
a	c	a	d	a	c	a
b	c	b	d	b	c	b
b	d	b	c	b	d	b
a	d	a	c	a	d	a
a	c	a	d	a	c	a

← IMAGE BLURRING  
DIRECTION OF OLPF

(B)  
DIAGONAL GRID  
IMAGING MODE

a	d	a	c	a	d	a
b	c	b	d	b	c	b
a	d	a	c	a	d	a
c	c	d	d	c	c	c

↑  
ADDING-UP  
DIRECTION

← IMAGE BLURRING  
DIRECTION OF OLPF

FIG. 38

9 1 ELECTRONIC CAMERA

